

TC-K215/K315

SERVICE MANUAL


UK Model
TC-K215

AEP Model
E Model
Australian Model
TC-K315



Photo: TC-K315 model

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Mechanism		TC-K311
Tape Transport	TC-K215	TCM-190VB22CS
Mechanism Type	TC-K315	TCM-190VB12CS

SPECIFICATIONS

Recording system 4-track 2-channel stereo
Fast winding time Approx. 90 sec. (with Sony C-60 cassette)
Bias AC bias
Heads Erasing head x 1 (F&F head)
Playback/Recording head x 1 (SD head)
Motors Capstan motor x 1 (DC servo motor)
Reel motor x 1 (DC motor)

Signal-to-noise ratio (at peak level and weighted)

Cassette (Dolby NR off)	Type IV	Type II	Type I
	58 dB	57 dB	55 dB

Measured at peak level weighted without NR. The S/N is improved by about 15 dB at 500 Hz and by about 20 dB at 1 kHz with Dolby-C NR on, and by about 5 dB at 1 kHz and by about 10 dB at 5 kHz with Dolby-B NR on.

Harmonic distortion 0.4% (with Type I, 160 nWb/m, 315 Hz, 3rd H.D.)
1.8% (with Type IV, 250 nWb/m, 315 Hz, 3rd H.D.)

Frequency response (Dolby NR off)

Type IV cassette	30 – 15,000 Hz (± 3 dB, IEC)
Type II cassette	30 – 13,000 Hz [± 3 dB, (-4 dB recording)]
Type I cassette	30 – 15,000 Hz (± 3 dB, IEC)
Type I cassette	30 – 14,000 Hz (± 3 dB, IEC)

Type IV : Sony Type IV (METAL)

Type II : Sony Type II (HIGH)

Type I : Sony Type I (NORMAL)

Wow and flutter $\pm 0.13\%$ W.Peak (IEC)
0.07% W.RMS (NAB)
 $\pm 0.18\%$ W.Peak (DIN)

Inputs

Line inputs (phono jacks)	Sensitivity	0.16 V
	Input impedance	47 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.5 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	1 mW at a load impedance of 32 ohms

General

Power requirements

AEP, German,

East European model : 220—230 V AC, 50/60 Hz

UK model : 240 V AC, 50 Hz

Australian model : 240 V AC, 50/60 Hz

E model : 110—120 or 220—240 V AC adjustable, 50/60 Hz

Power consumption 19 W

Dimensions Approx. 430 x 123 x 310 mm (w/h/d) including projecting parts and controls

Mass Approx. 3.6 kg

Supplied accessories

Audio connecting cords (2)

Design and specifications are subject to change without notice.



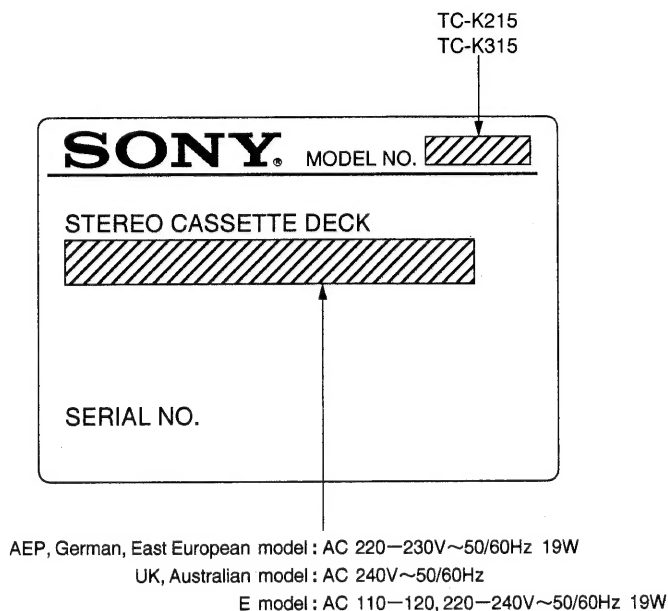
STEREO CASSETTE DECK
SONY®

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MODEL IDENTIFICATION

— Specification Labels —



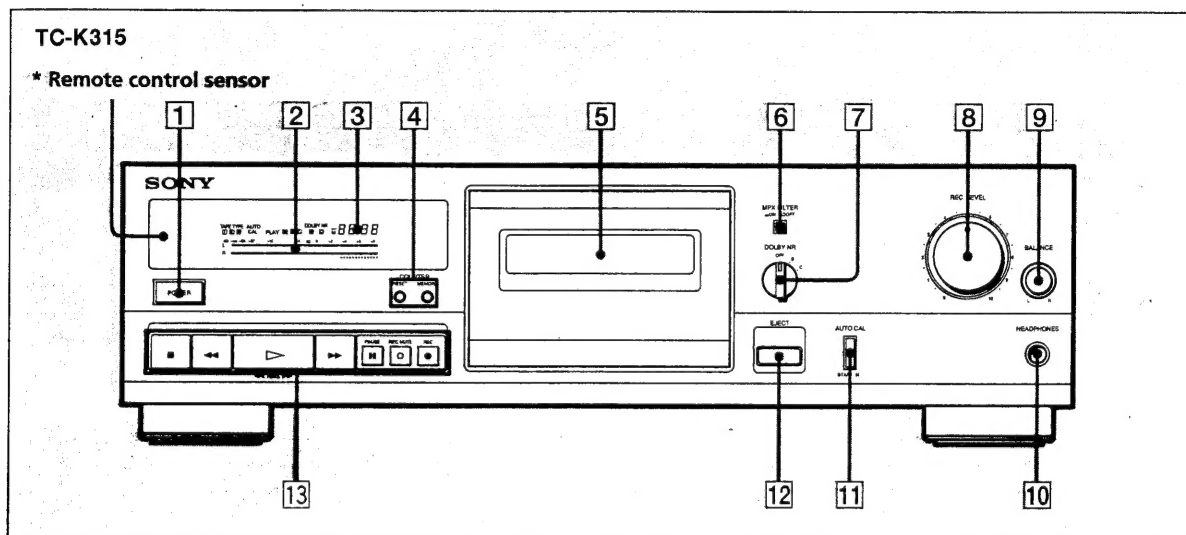
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

This section is extracted
from instruction manual.

Identifying the Parts on the Front Panel





For details, refer to the page number(s) indicated in parentheses.

- 1 POWER switch
- 2 Peak level meter (page 12)
- 3 Digital counter (page 9)
- 4 COUNTER buttons
 - RESET button (page 9)
 - MEMORY button (pages 9 and 10)
- 5 Cassette holder
- 6 MPX FILTER button (page 12)
- 7 DOLBY NR (noise reduction) switch (pages 7 and 10)
- 8 REC (recording) LEVEL control (pages 11 and 12)
- 9 BALANCE control (page 11)
- 10 HEADPHONES jack (stereo phone jack) (page 7)
- 11 AUTO CAL button (page 13) : TC-K315
- 12 △ (EJECT) button

- 13 Tape operation buttons
 - (stop) button
 - ◀◀ (rewind) (Multi-AMS**) button
 - ▶ (play) button
 - ▶▶ (fast-forward) (Multi-AMS**) button
 - ⏸ PAUSE button
 - REC MUTE (record muting) button (page 14)
 - REC (recording) button

* Remote control sensor

You can remotely control this cassette deck with:

- A **remote commander** that came with a Sony amplifier or receiver if it has the  mark and cassette deck control capability.
- An **optional Sony remote commander** with the  mark and cassette deck control capability.

**AMS is an abbreviation for Automatic Music Sensor.

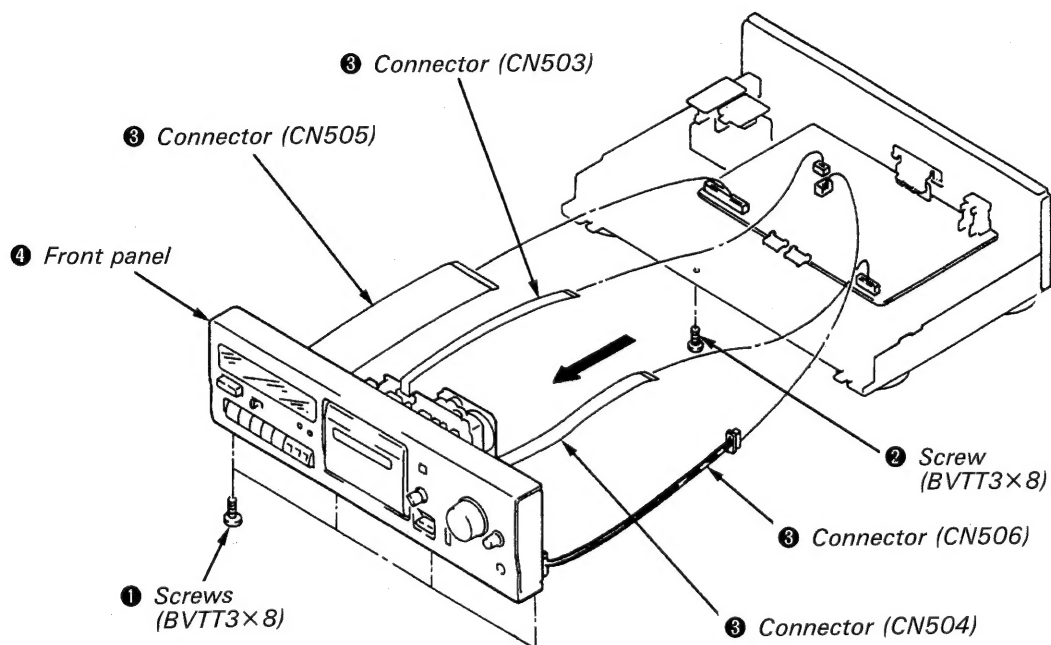
SECTION 2 DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.

CASE

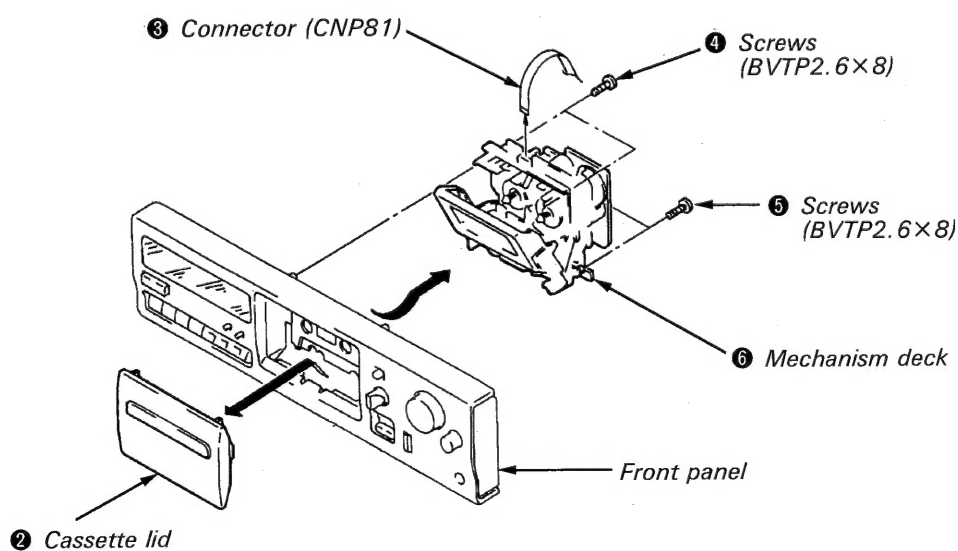
Unscrew the four case attachment screws M3×8 and remove the case.

2-1. FRONT PANEL

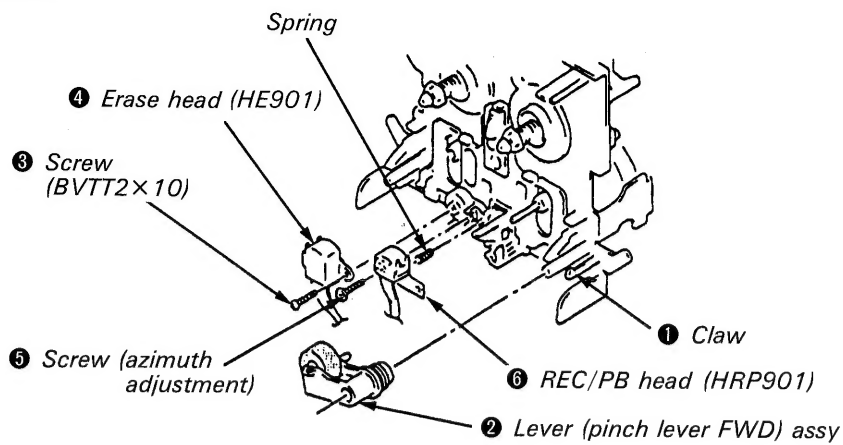


2-2. MECHANISM DECK

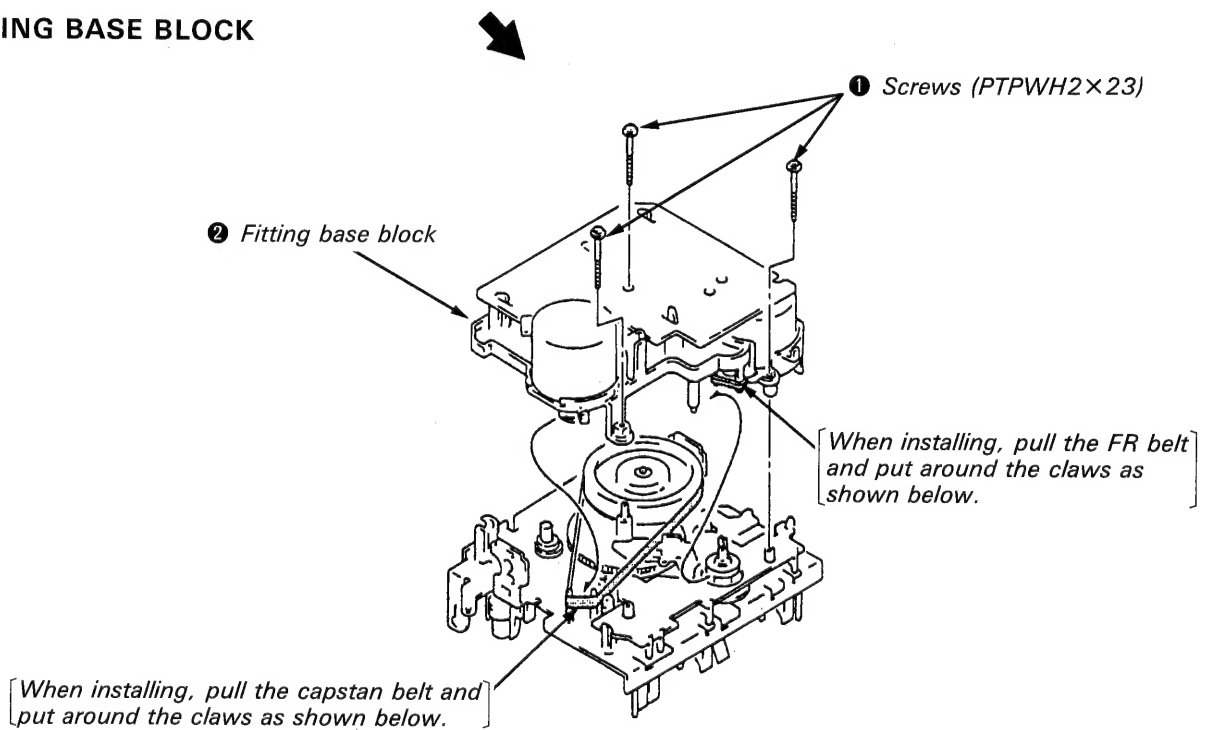
- ① Press the eject button.



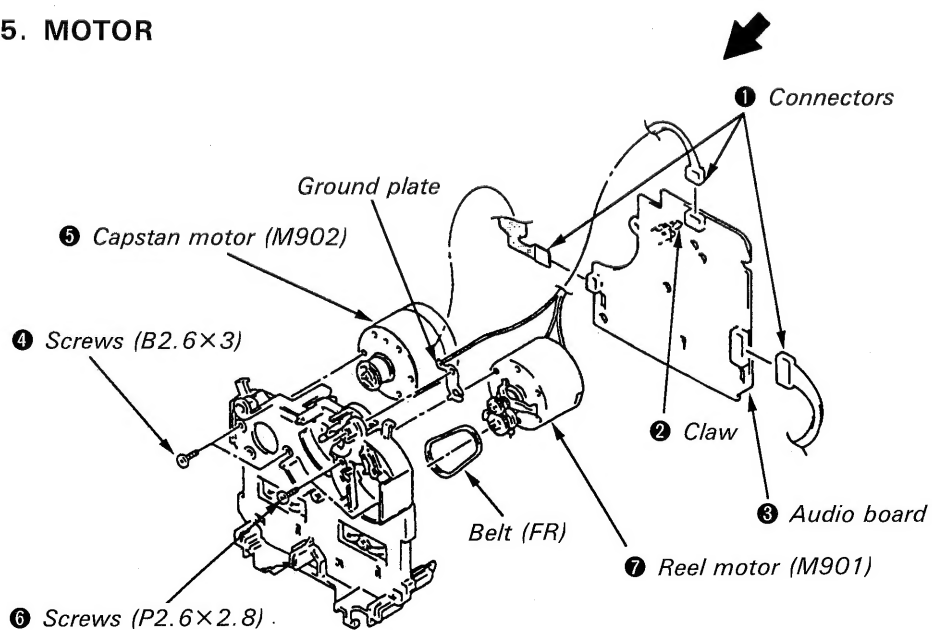
2-3. HEAD



2-4. FITTING BASE BLOCK



2-5. MOTOR



SECTION 3 ADJUSTMENT

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback/erase head	pinch roller
rubber belts	capstan
idlers	
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustment.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque	Meter reading
Forward	CQ-102C	30 to 65g•cm (0.42 to 0.9 oz•inch)
Forward back tension	CQ-102C	1 to 6g•cm (0.014 to 0.08 oz•inch)
FF/REW	CQ-201B	70 to 120g•cm (0.98 to 1.67 oz•inch)

Standard Input Level

Input terminal	LINE IN
source impedance	10k Ω
input signal level	0.5V (- 3.8dB)

Standard Output Level

Output terminal	LINE OUT
load impedance	47k Ω
output signal level	0.5V (- 3.8dB)

Test Tape

Tape	Contents	Use
P-4-A100	10kHz, - 10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

0dB=0.775V

Test Mode

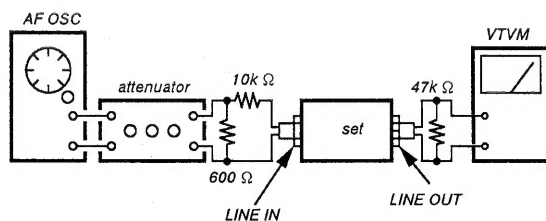
1. Insert a short-circuit plug into TP801 (2P) and turn ON the power switch. (Earth pin ⑦ of IC801 and turn ON the power switch.)
At first, all the fluorescent tubes light up, then the system returns to normal display. (However, "0000" is not displayed on the counter.)
2. To release the test mode, remove the short plug and turn off the power switch.
3. Remove the short plug after completion of adjustment.

3-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

1. The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
2. The adjustments and measurement should be performed for both L-CH and R-CH.
 - Position of switches and control knobs
DOLBY NR switch : OFF
MPX FILTER switch : OFF
BALANCE control : mechanical mid
 - Standard record position:
Deliver the standard input signal level to input jack and set the REC LEVEL control to obtain the standard output signal level as follows.

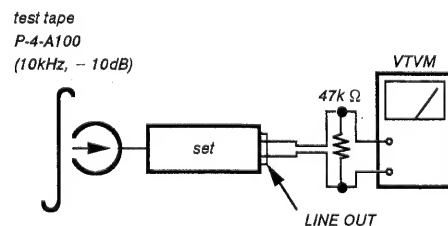
— Record Mode —



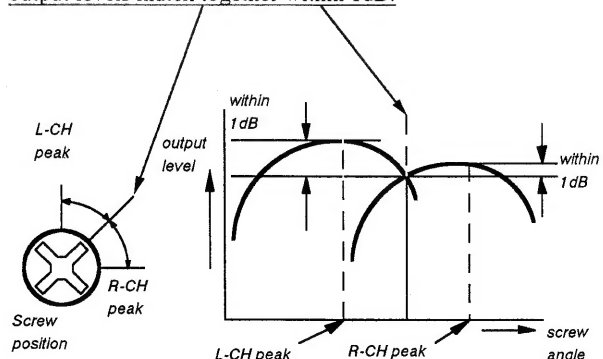
Record/Playback Head Azimuth Adjustment

Procedure :

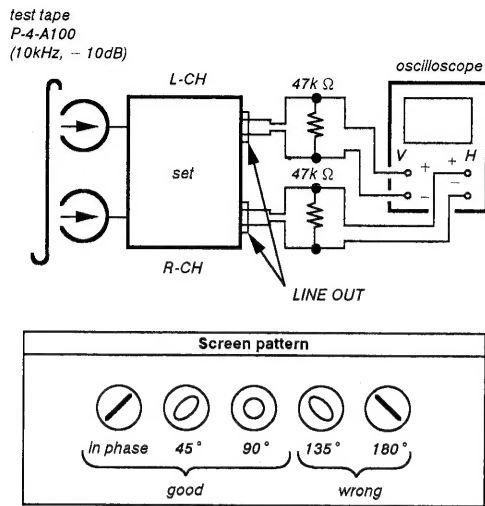
1. Playback Mode



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 1dB.

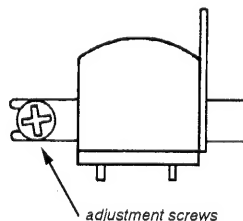


3. Playback Mode



4. After the adjustment, lock the adjustment screws with suitable locking compound.

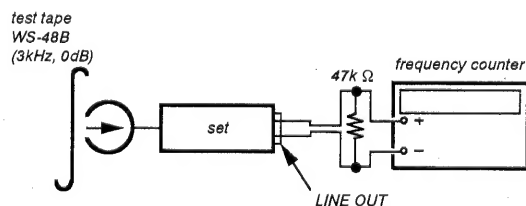
Adjustment Location : – record/playback head –



Tape Speed Adjustment

Procedure :

– Playback Mode –



1. Adjust RV71 so that the frequency counter reading becomes $3,000 \pm 10\text{Hz}$.
2. If, the frequency counter reading does not become $3000 \pm 10\text{Hz}$. Turn RV72 and back to 1st. step again.

Note:

Turn RV72 to clockwise – Tape speed becomes fast.

Turn RV72 to counter clockwise – Tape speed becomes slow.

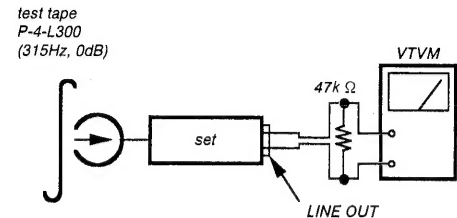
Frequency difference between the beginning and the end of the tape should be within 3%.

Adjustment Location : AUDIO board

Playback Level Adjustment

Procedure :

– Playback Mode –



Adjust RV11(L-CH) and RV21(R-CH) so the VTVM reading becomes the adjustment limits below.

Adjustment Value :

LINE OUT level : $-7.7 \pm 0.5\text{dB}$ (0.301 to 0.338V)

Level difference between channels : within 0.5dB

Confirm the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

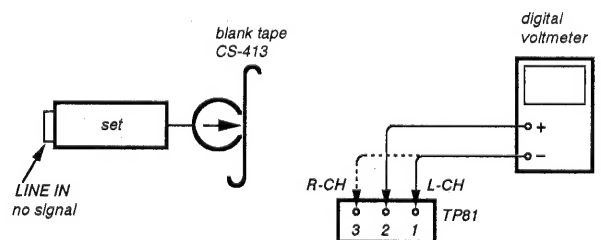
Adjustment Location : AUDIO board

Bias Consumption Current Adjustment (TC-K315 only)

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T81,T91).

Procedure :

– Record Mode –



1. Connect the digital voltmeter to test point TP81.
2. Set RV81 (L-CH) and RV91 (R-CH) to mechanical center.
3. Set to record mode.
4. Adjust T81 (L-CH) and T91 (R-CH) so that the digital voltmeter reading becomes minimum.

Adjustment Location : AUDIO board

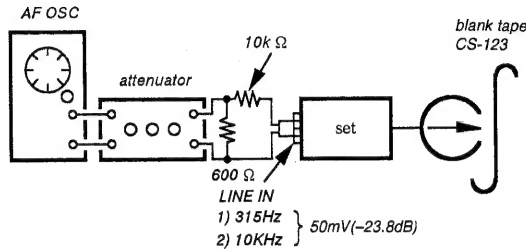
Record Bias Adjustment

Setting :

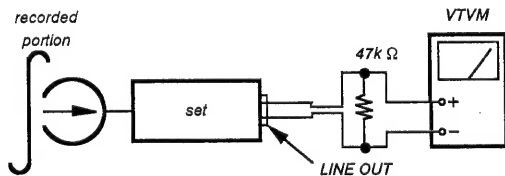
REC LEVEL control : standard record position (Refer to page 6.)

Procedure :

1. Record Mode



2. Playback Mode



Confirm that the 10kHz playback output is $0 \pm 0.5\text{dB}$ relative to the 315Hz output. If necessary, adjust semi-fixed resistor as shown below and repeat the steps given above.

TC-K215 : RV12 (L-CH), RV22 (R-CH)

TC-K315 : RV81 (L-CH), RV91 (R-CH)

Adjustment Location : AUDIO board

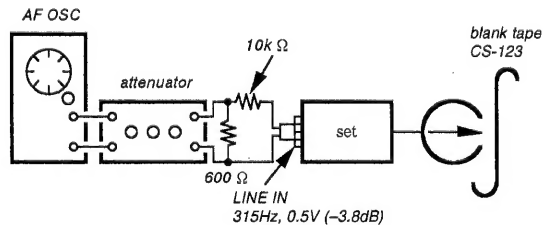
Record Level Adjustment

Setting :

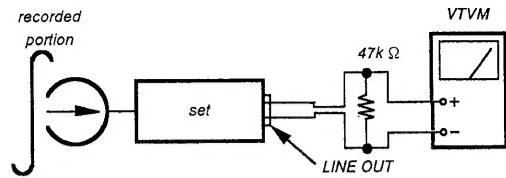
REC LEVEL control : standard record position (Refer to page 6.)

Procedure :

1. Record Mode



2. Playback Mode



Confirm playback the tape recorded become adjustment level as follows.

If necessary, adjust RV111(L-CH), RV211(R-CH) and repeat the steps 1 and 2.

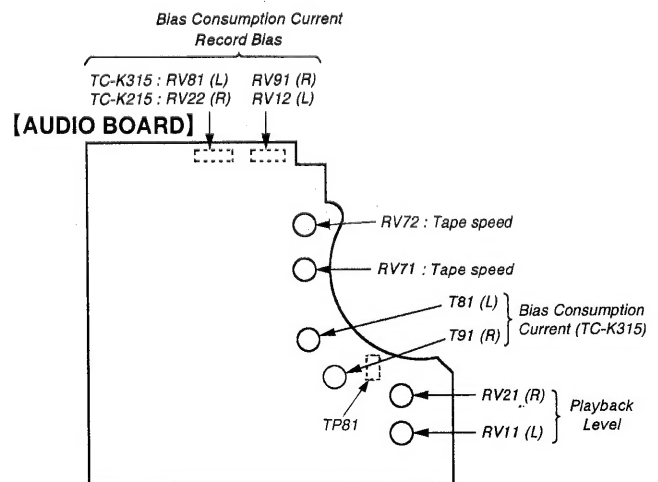
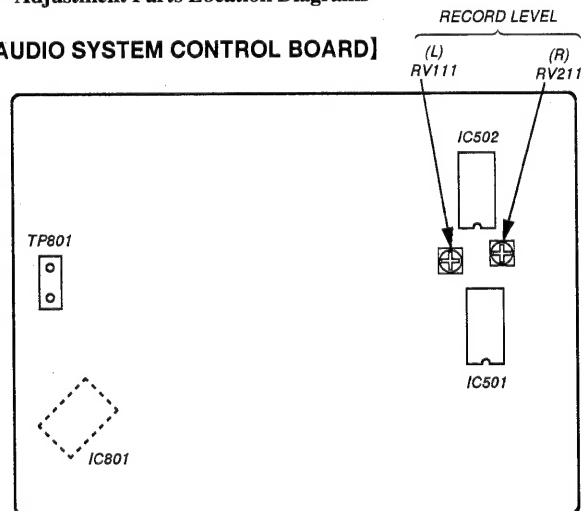
Adjustment Value :

LINE OUT level : $-3.8 \pm 0.5\text{dB}$ (0.47 to 0.53V)

Adjustment Location : SYSTEM CONTROL

— Adjustment Parts Location Diagrams —

[AUDIO SYSTEM CONTROL BOARD]



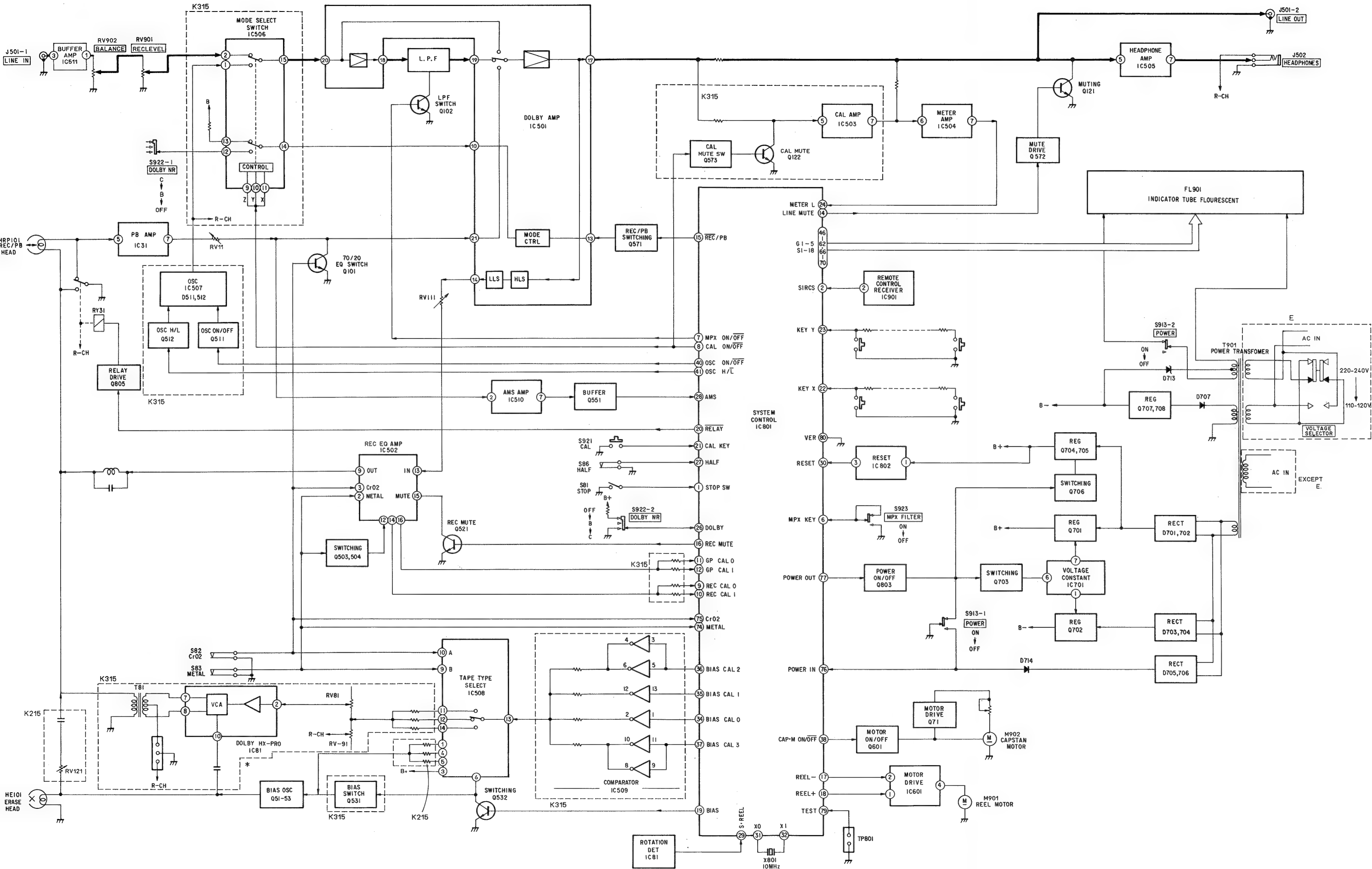
SECTION 4 DIAGRAMS

4-1. IC PIN FUNCTION

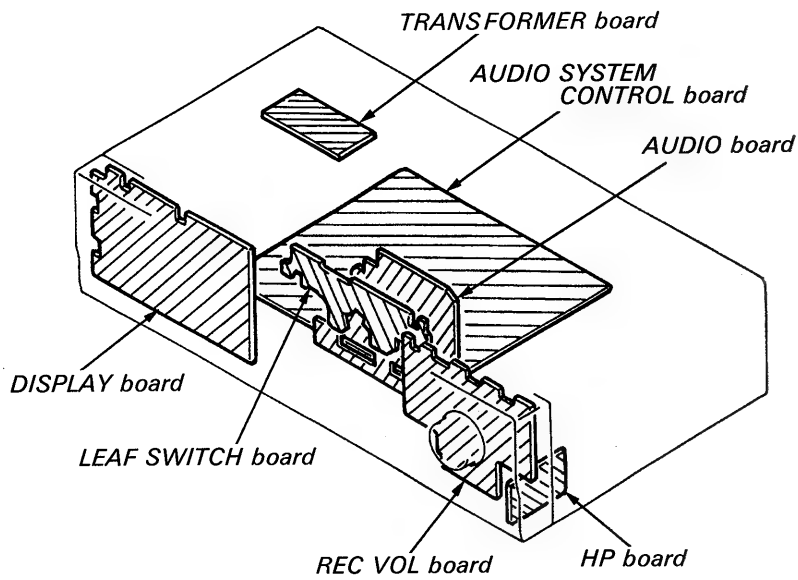
IC801 CXP82316-014Q

Pin No.	Pin name	I/O	Description
1	STOP SW	I	Mechanism stop switch input terminal.
2	SIRCS	I	SIRCS signal in terminal.
3	NC	—	Not used.
4	—	—	
5	—	—	
6	MPX KEY	I	MPX Key ON/OFF switch input terminal. OFF = 0V
7	MPX ON/OFF	O	MPX Filter ON/OFF control terminal. OFF = L
8	CAL ON/OFF	O	Calibration ON/OFF control terminal.
9	REC CAL0	I	REC calibration terminal.
10	REC CAL1	I	REC calibration terminal.
11	GP CAL0	I	GP calibration terminal.
12	GP CAL1	I	GP calibration terminal.
13	—	—	
14	LINE MUTE	O	Line mute ON/OFF. 0V =Mute
15	REC/PB	O	Recording/Playback selector for dolby IC select.
16	REC MUTE	O	REC out mute terminal.
17	REEL —	O	Reel motor — control terminal.
18	REEL +	O	Reel motor + control terminal.
19	BIAS	O	Bias ON/OFF.
20	RELAY	O	Relay selector, terminal
21	CAL KEY	I	Calibration ON/OFF switch input terminal. ON = 0V
22	KEY X	I	Key switch input terminal.
23	KEY Y	I	Key switch input terminal.
24	METER L	I	Meter level Lch.
25	METER R	I	Meter level Rch.
26	DOLBY	I	Dolby OFF/B/C select terminal.
27	HALF	I	Half pawl input terminal.
28	AMS	I	AMS signal input terminal.
29	S • REEL	I	Suplly pulse input terminal.
30	RESET	I	Reset terminal. Reset = 0V
31	XO	O	System clock input terminal.
32	XI	I	System clock output terminal.
33	GND	—	Power supply (GND)
34	BIAS CAL0	O	Bias calibration terminal.
35	BIAS CAL1	O	Bias calibration terminal.
36	BIAS CAL2	O	Bias calibration terminal.
37	BIAS CAL3	O	Bias calibration terminal.
38	CAP • M ON/OFF	O	Capstan motor. ON/OFF control.
39	NC	—	Not used.
40	OSC ON/OFF	O	OSC ON/OFF control.

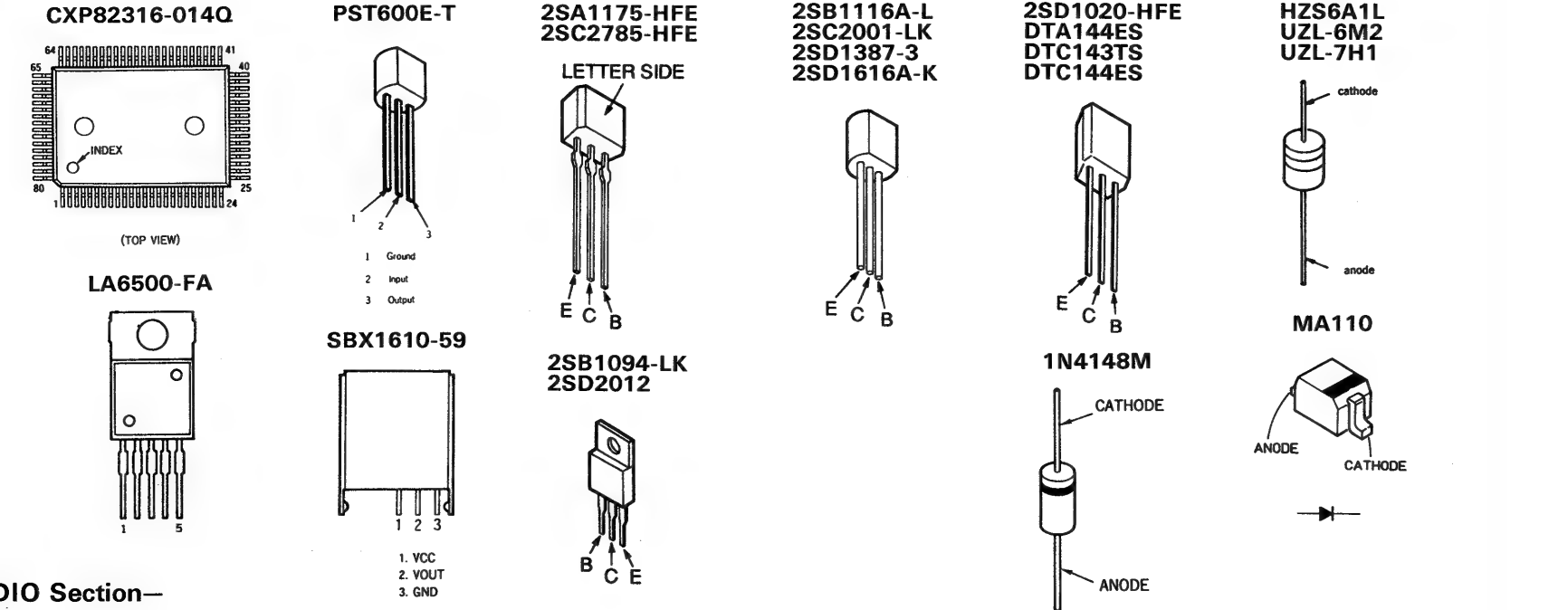
Pin No.	Pin name	I/O	Description
41	OSC H/L	O	OSC H/L control.
42	NC	—	Not used.
43	NC	—	Not used.
44	NC	—	Not used.
45	NC	—	Not used.
46	S1	O	FL Segment.
47	S2	O	FL Segment.
48	S3	O	FL Segment.
49	S4	O	FL Segment.
50	S5	O	FL Segment.
51	S6	O	FL Segment.
52	S7	O	FL Segment.
53	S8	O	FL Segment.
54	S9	O	FL Segment.
55	S10	O	FL Segment.
56	S11	O	FL Segment.
57	S12	O	FL Segment.
58	S13	O	FL Segment.
59	S14	O	FL Segment.
60	S15	O	FL Segment.
61	S16	O	FL Segment.
62	S18	O	FL Segment.
63	NC	—	Not used.
64	NC	—	Not used.
65	NC	—	Not used.
66	G5	O	FL Grid.
67	G4	O	FL Grid.
68	G3	O	FL Grid.
69	G2	O	FL Grid.
70	G1	O	FL Grid.
71	— 20V	—	— 20V.
72	+5V	—	Power supply (+5V)
73	+5V	—	Power supply (+5V)
74	METAL	I	Metal tape selector terminal. “H” : Metal
75	CrO ₂	I	CrO ₂ tape select terminal. “H” : CrO ₂
76	POWER IN	I	0V = Power OFF
77	POWER OUT	O	Power ON/OFF. ON = 0V
78	NC	—	Not used.
79	TEST	I	Test mode selector. 5V = Normal, 0V = Test mode
80	VER	I	Version selector. “H” : Reverse “L” : 1 way



4-3. CIRCUIT BOARDS LOCATION



4-4. SEMICONDUCTOR LEAD LAYOUTS



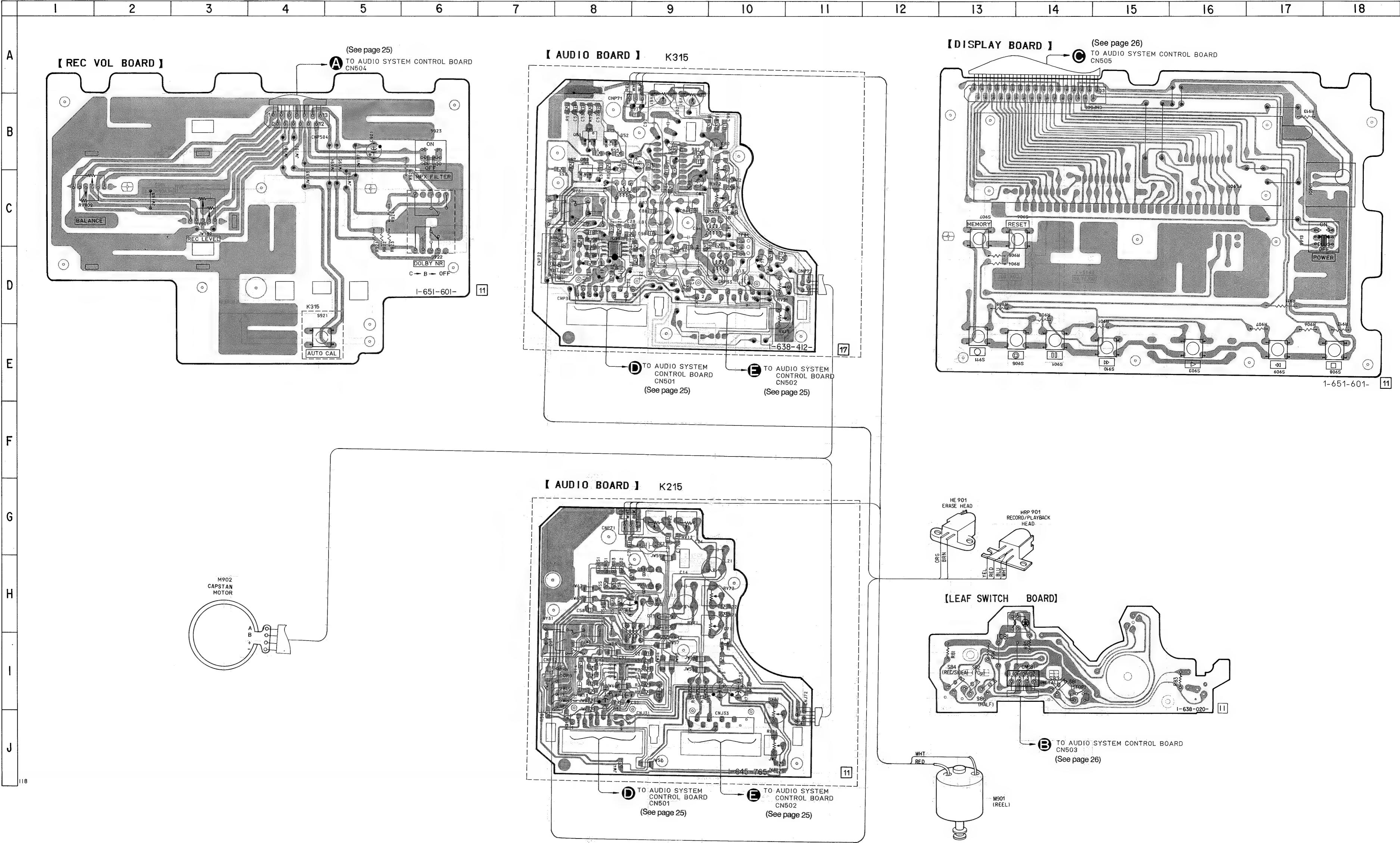
Note:

- : parts extracted from the component side.
- : Through hole.
- ▨ : Pattern on the side which is seen.
- ◻ : Pattern of the rear side.

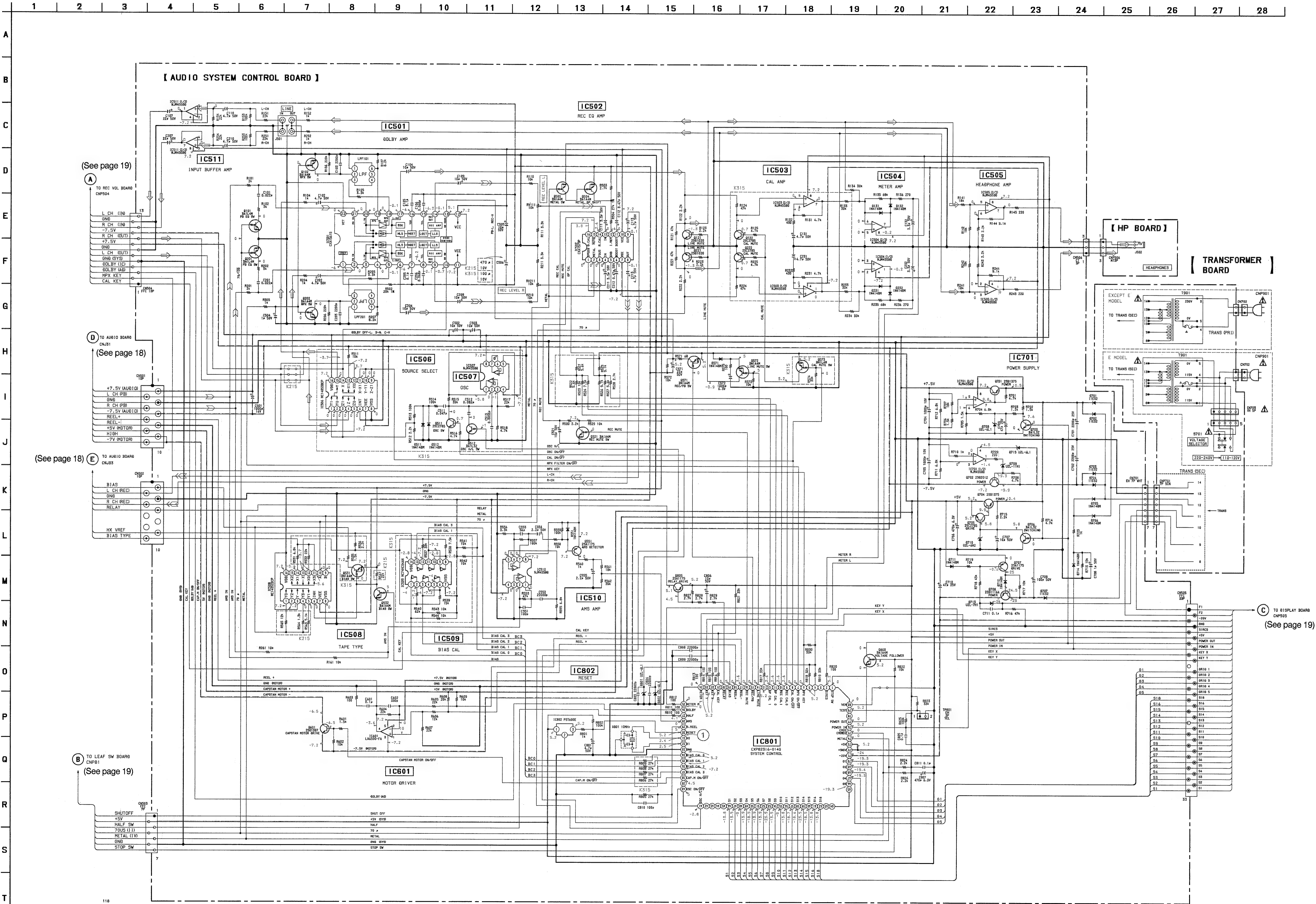
4-5. PRINTED WIRING BOARDS —AUDIO Section—

● Semiconductor Location

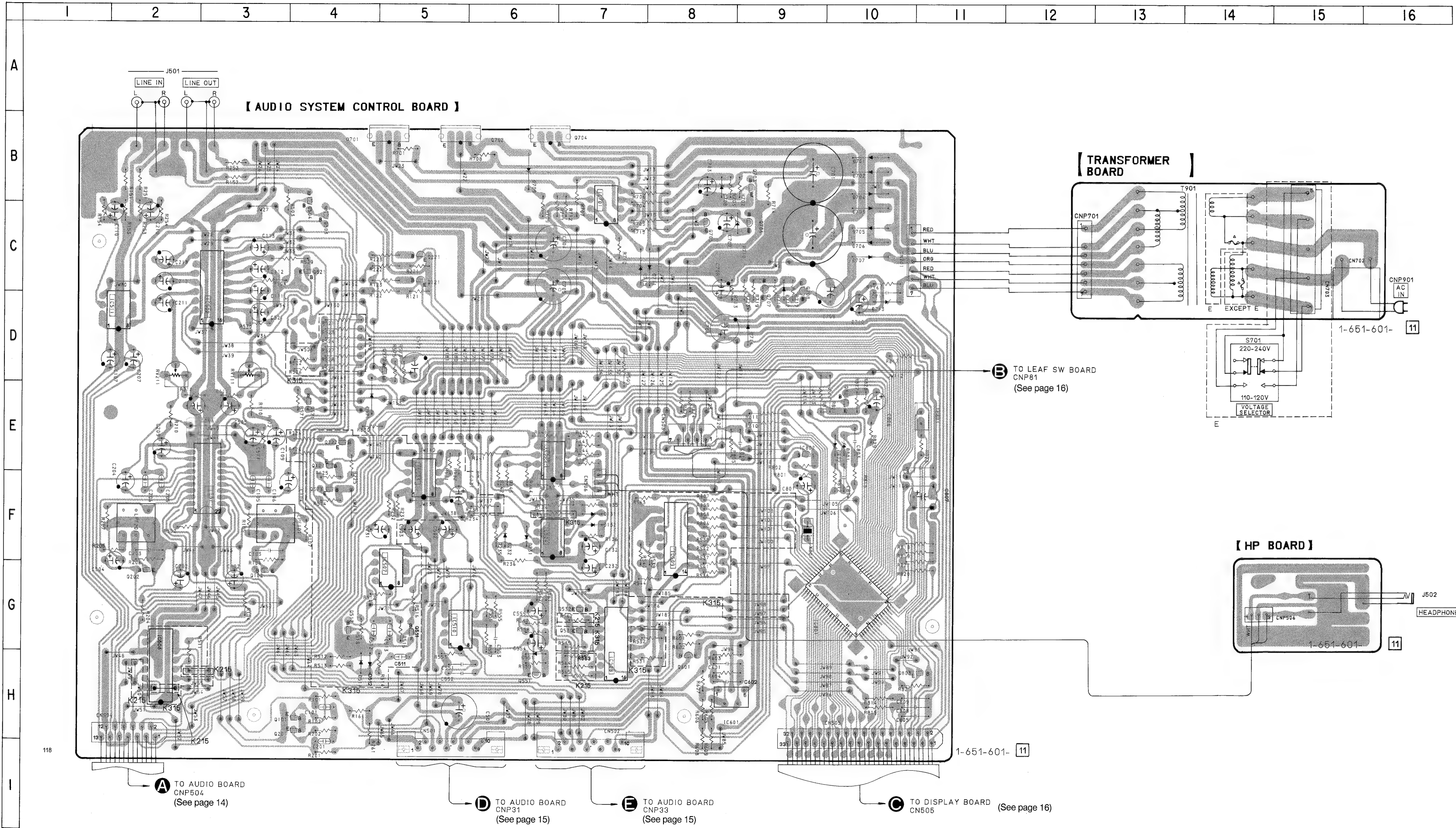
Ref. No.	Location
D31 (K215)	I - 7
D31 (K315)	C - 8
IC31 (K215)	I - 8
IC31 (K315)	C - 8
IC81 (LEAF SW BOARD)	H - 14
IC81 (AUDIO BOARD)	B - 9
IC901	C - 18
Q51 (K215)	H - 9
Q51 (K315)	B - 8
Q52 (K215)	H - 9
Q52 (K315)	B - 8
Q53 (K215)	H - 9
Q53 (K315)	B - 8
Q71 (K215)	I - 10
Q71 (K315)	C - 10



4-7. SCHEMATIC DIAGRAM—AUDIO SYSTEM CONTROL Section—



4-8. PRINTED WIRING BOARDS —AUDIO SYSTEM CONTROL Section— ● See page 14 for Circuit Boards Location. ● See page 14-15 for Semiconductor Lead Layouts.



● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D131	F - 7	IC511	D - 2
D132	F - 7	IC601	H - 8
D231	F - 6	IC701	C - 7
D232	F - 6	IC801	G - 10
D511	H - 4	IC802	E - 9
D512	H - 4		
D551	H - 6	Q101	H - 4
D571	E - 4	Q102	G - 2
D701	B - 10	Q121	C - 5
D702	B - 10	Q122	E - 4
D703	C - 10	Q201	H - 4
D704	B - 10	Q202	G - 2
D705	C - 10	Q221	C - 5
D706	C - 10	Q222	E - 4
D707	C - 10	Q503	C - 4
D708	B - 8	Q504	C - 4
D709	B - 6	Q511	G - 5
D710	C - 9	Q512	G - 4
D711	C - 8	Q521	C - 4
D712	C - 9	Q531	G - 7
D713	D - 10	Q532	G - 7
D714	D - 9	Q551	H - 6
D715	C - 7	Q571	E - 4
D801	E - 10	Q572	D - 5
D802	E - 10	Q573	F - 4
		Q601	H - 8
IC501	F - 3	Q701	B - 5
IC502	C - 3	Q702	B - 5
IC503	F - 5	Q703	B - 9
IC504	F - 6	Q704	B - 6
IC505	E - 6	Q705	C - 8
IC506	H - 2	Q706	C - 9
IC507	G - 5	Q707	C - 9
IC508	G - 7	Q708	C - 9
IC509	F - 8	Q803	H - 11
IC510	G - 5	Q805	E - 10

Note:
○ : parts extracted from the component side.
● : Through hole.
■ : Pattern on the side which is seen.

SECTION 5 EXPLODED VIEWS

NOTE:

● -xx,-x mean standardized parts, so they may have some differences from the original one.

● Color Indication of Appearance Parts

Example:

KNOB, BALANCE (WHITE)...(RED)

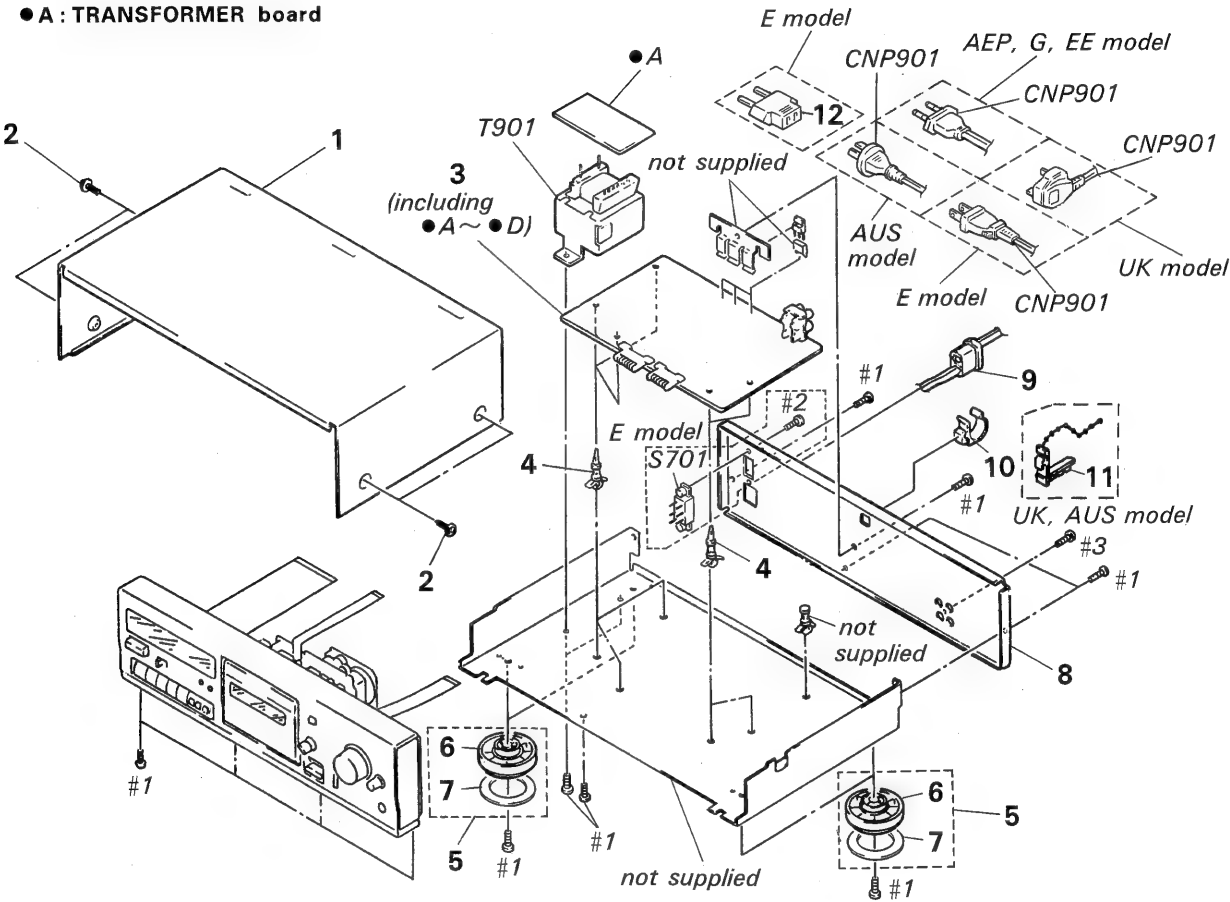
Parts color Cabinet's color

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviations
G : German
EE : East European
AUS : Australian

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

5-1. CHASSIS SECTION

● A : TRANSFORMER board

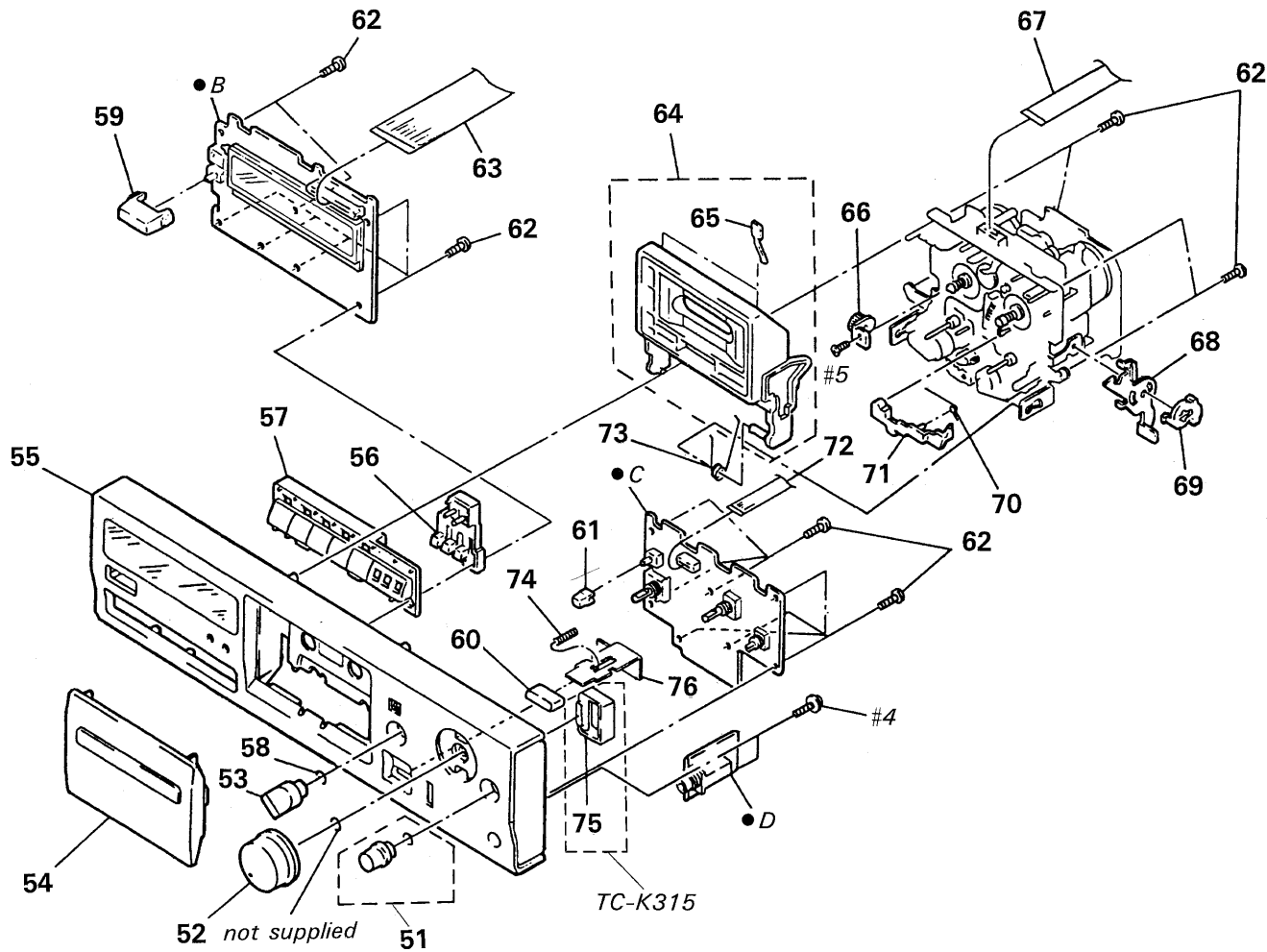


Ref.No.	Part No.	Description	Remark
*1	4-943-088-41	CASE	
2	3-704-366-01	SCREW (CASE) (M3X8)	
*3	A-2007-178-A	AUDIO SYSTEM CONTROL BOARD, COMPLETE (TC-K215)	
*3	A-2007-179-A	AUDIO SYSTEM CONTROL BOARD, COMPLETE (TC-K315:E)	
*3	A-2007-181-A	AUDIO SYSTEM CONTROL BOARD, COMPLETE (TC-K315:AEP, G, AUS, EE)	
*4	3-346-265-31	HOLDER, PC BOARD	
5	X-4941-292-1	FOOT ASSY (F58175S)	
6	3-318-688-31	FOOT (F58175S)	
7	4-923-836-21	CUSHION	
*8	3-910-526-01	PANEL, BACK (TC-K315:AEP, G, EE)	
*8	3-910-526-11	PANEL, BACK (TC-K315:AUS)	
*8	3-910-526-21	PANEL, BACK (TC-K315:E)	

Ref.No.	Part No.	Description	Remark
*8	3-910-526-31	PANEL, BACK (TC-K215)	
*9	3-703-244-00	BUSHING (2104), CORD (TC-K215/TC-K315:AEP, G, AUS, EE)	
9	3-703-571-11	BUSHING (S) (4516), CORD (TC-K315:E)	
*10	4-949-235-01	HOOK (TC-K315:AEP, G, E, EE)	
*11	4-956-370-12	BAND, PLUG FIXED (TC-K215/TC-K315:AUS)	
\triangle 12	1-569-007-11	ADAPTER, CONVERSION 2P (TC-K315:E)	
\triangle CNP901	1-575-651-21	CORD, POWER (TC-K315:AEP, G, EE)	
\triangle CNP901	1-696-027-11	CORD, POWER (TC-K315:E)	
\triangle CNP901	1-696-586-11	CORD, POWER (TC-K215)	
\triangle CNP901	1-696-845-11	CORD, POWER (TC-K315:AUS)	
\triangle S701	1-570-046-21	SWITCH, VOLTAGE CHANGE (TC-K315:E)	
\triangle T901	1-426-651-11	TRANSFORMER, POWER (TC-K215/TC-K315:AEP, G, AUS, EE)	
\triangle T901	1-426-652-11	TRANSFORMER, POWER (TC-K315:E)	

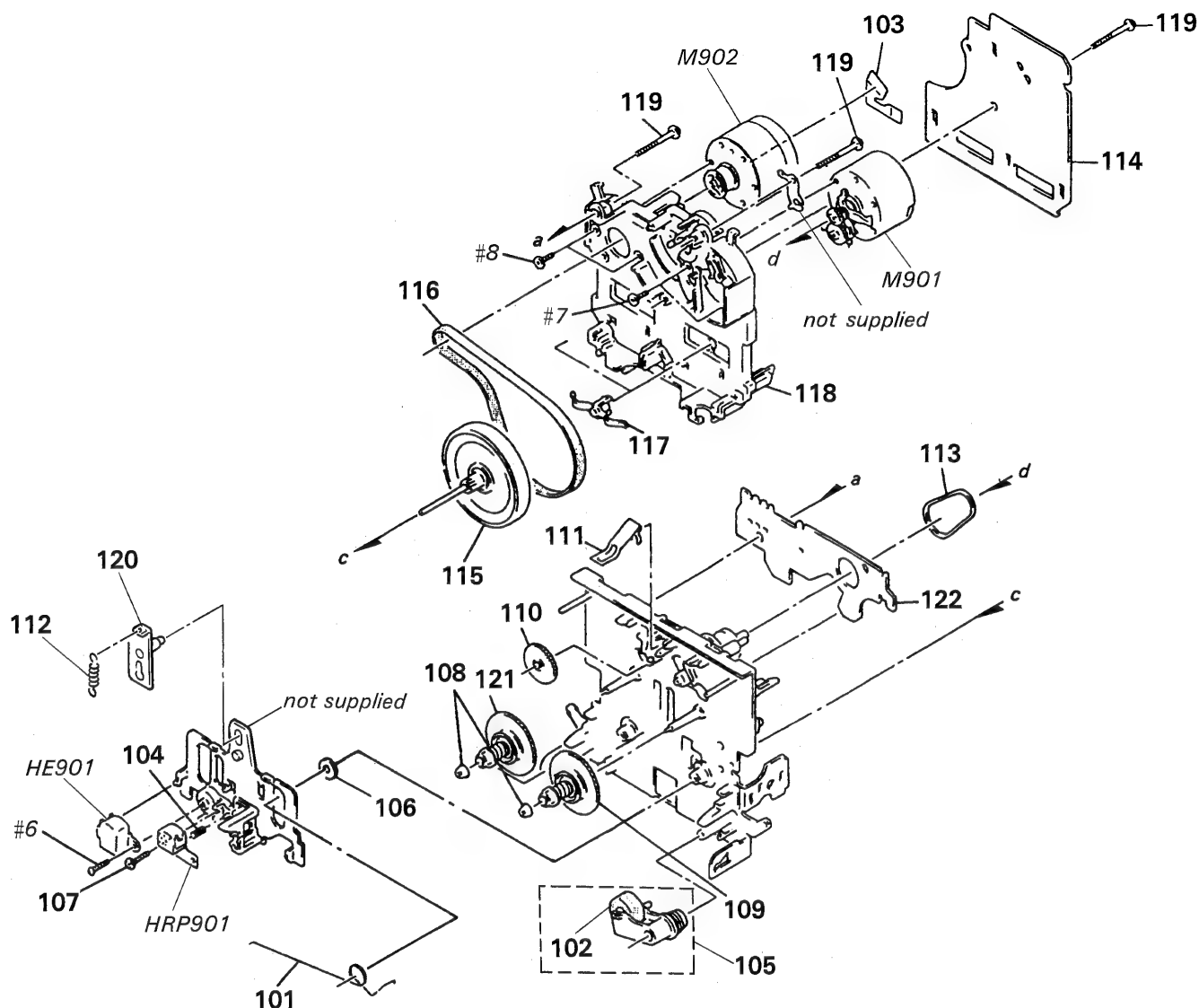
5-2. FRONT PANEL SECTION

- B : DISPLAY board
- C : REC VOL board
- D : HP board



Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
51	X-3368-033-1	KNOB (RB) ASSY (BALANCE)		64	A-2004-357-A	HOLDER (R) ASSY, CASSETTE (TC-K315)	
52	3-389-516-01	KNOB (REC) (REC LEVEL)		64	A-4325-164-A	HOLDER (R) ASSY, CASSETTE (TC-K215)	
53	4-908-097-21	KNOB (DOLBY NR)		65	3-308-823-11	DETENT, CASSETTE	
54	X-3367-877-1	LID ASSY, CASSETTE (TC-K315)		66	3-354-963-01	DAMPER	
54	X-3368-168-1	LID ASSY, CASSETTE (TC-K215)		67	1-696-965-11	WIRE (FLAT TYPE) (7 CORE)	
55	X-3367-876-1	PANEL ASSY, FRONT (TC-K315)		*68	3-354-954-01	LEVER (LOCK LEVER R)	
55	X-3367-878-1	PANEL ASSY, FRONT (TC-K215)		69	3-354-957-01	JOINT (LOCK LEVER)	
56	3-386-248-11	BUTTON (RE) (PAUSE/REC MUTE/REC)		70	3-354-962-01	SPRING (EJ SAFTY SPRING R)	
57	3-386-247-11	BUTTON (FW) (STOP/REWIND/PLAY/FAST-FORWARD)		71	3-354-956-01	LEVER (EJ SAFTY LEVER R)	
58	3-350-440-11	SPRING, RING		72	1-534-517-00	WIRE (FLAT TYPE) (13 CORE)	
59	3-354-932-01	BUTTON (POWER)		73	3-354-960-01	SPRING (LOADING R), TORSION	
60	3-387-830-11	BUTTON (EJECT)		74	3-359-906-11	SPRING, COMPRESSION	
61	3-380-952-21	BUTTON (MPX FILTER)		75	3-387-834-31	BUTTON (MBC) (AUTO CAL) (TC-K315)	
62	4-951-620-01	SCREW (2.6X8), +BVTP		76	3-387-833-11	SLIDER (EJECT)	
63	1-751-736-11	WIRE (FLAT TYPE) (33 CORE)					

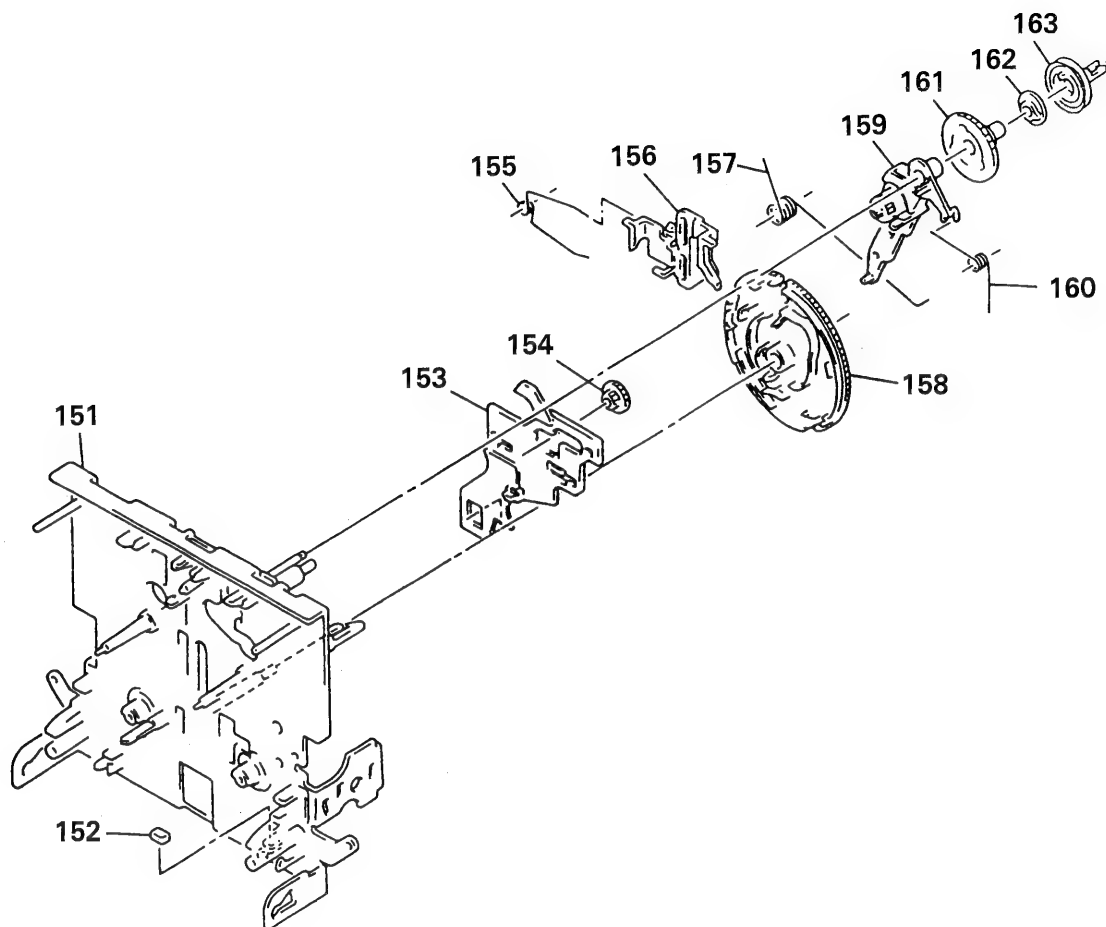
5-3. MECHANISM SECTION-1
(TCM-190VB12CS : TC-K315)
(TCM-190VB22CS : TC-K215)



Ref.No.	Part No.	Description	Remark
101	3-359-455-01	SPRING, TORSION (TC-K215)	
101	3-907-362-01	SPRING, TORSION (TC-K315)	
102	3-355-808-21	PINCH ROLLER	
103	1-638-983-11	MOTOR FLEXIBLE BOARD	
104	3-343-484-01	SPRING, COMPRESSION	
105	X-3366-047-1	LEVER (PINCH F) ASSY	
106	3-356-713-01	WASHER	
107	3-378-262-01	SCREW (AZIMUTH)	
108	3-362-308-01	CAP (REEL) (TC-K215)	
108	3-913-841-01	CAP (REEL) (TC-K315)	
109	X-3366-970-1	TABLE ASSY, REEL	
110	3-359-424-01	GEAR (REV GEAR)	
111	3-359-430-01	SPRING(CASSETTE RETAINER), LEAF	
112	3-363-868-01	SPRING (HEAD CHASSIS), TENSION	
113	3-359-466-01	BELT (FR), SQUARE	

Ref.No.	Part No.	Description	Remark
* 114	A-2006-890-A	AUDIO BOARD, COMPLETE (TC-K315)	
* 114	A-2007-171-A	AUDIO BOARD, COMPLETE (TC-K215)	
115	X-3367-629-1	FLYWHEEL (FWD) ASSY	
116	3-359-467-01	BELT (1 WAY FLAT BELT)	
117	3-575-321-00	RETAINER, THRUST, CAPSTAN	
118	3-359-436-11	BASE (THRUST RETAINER), FITTING	
119	3-359-414-01	SCREW (+PTPHW 2X23)	
* 120	X-3362-589-2	SLIDER (LIMITER) ASSY	
121	X-3366-971-1	TABLE ASSY (B), REEL	
* 122	1-638-020-11	LEAF SW BOARD	
HE901	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HRP901	1-543-919-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
M901	X-3363-501-1	MOTOR ASSY, REEL	
M902	X-3365-377-1	MOTOR ASSY, CAPSTAN	

5-4. MECHANISM SECTION-2
(TCM-190VB12CS : TC-K315)
(TCM-190VB22CS : TC-K215)



Ref.No.	Part No.	Description	Remark
151	X-3359-416-1	CHASSIS (ONE) ASSY, MECHANICAL	
152	3-359-469-01	SPACER	
*153	3-359-415-01	SLIDER (TRIGGER SLIDER)	
154	3-359-448-01	GEAR (TRIGGER)	
155	3-359-454-01	SPRING, TORSION	
156	3-359-429-01	SLIDER (BRAKE PLATE)	
157	3-359-456-01	SPRING (TRIGGER SPRING), TORSION	

Ref.No.	Part No.	Description	Remark
158	3-359-420-01	GEAR (CAM GEAR)	
159	X-3366-569-1	ARM ASSY, FR	
160	3-359-453-01	SPRING (FR ARM), TORSION	
161	3-359-419-11	GEAR (FR GEAR)	
162	3-359-421-01	CLUTCH (REEL DISK) (TC-K215)	
162	3-359-421-11	CLUTCH (REEL DISK) (TC-K315)	
163	3-359-418-11	PULLEY (FR PULLEY)	

SECTION 6

ELECTRICAL PARTS LIST

AUDIO

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA... : μ A..., uPA... : μ PA..., uPB... : μ PB...,
uPC... : μ PC..., uPD... : μ PD...
- CAPACITORS ● Abbreviations
uF : μ F G : German
EE : East European
AUS : Australian
- COILS
uH : μ H

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description	Remark		
*	A-2007-171-A	AUDIO BOARD, COMPLETE (K215)	*****		
		< CAPACITOR >			
C11	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C12	1-136-157-00	FILM 0.022uF	5%	50V	
C13	1-124-234-00	ELECT 22uF	20%	16V	
C14	1-136-272-00	FILM 68PF	5%	630V	
C15	1-164-080-11	CERAMIC 390PF	10%	50V	
C17	1-163-103-00	CERAMIC CHIP 27PF	5%	50V	
C18	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C21	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	
C22	1-136-157-00	FILM 0.022uF	5%	50V	
C23	1-124-234-00	ELECT 22uF	20%	16V	
C24	1-136-272-00	FILM 68PF	5%	630V	
C25	1-164-080-11	CERAMIC 390PF	10%	50V	
C27	1-163-103-00	CERAMIC CHIP 27PF	5%	50V	
C28	1-163-117-00	CERAMIC CHIP 100PF	5%	50V	
C31	1-124-234-00	ELECT 22uF	20%	16V	
C32	1-124-234-00	ELECT 22uF	20%	16V	
C33	1-124-234-00	ELECT 22uF	20%	16V	
C51	1-163-019-00	CERAMIC CHIP 0.0068uF	10%	50V	
C52	1-163-019-00	CERAMIC CHIP 0.0068uF	10%	50V	
C53	1-163-022-00	CERAMIC CHIP 0.012uF	10%	50V	
C54	1-136-560-11	FILM 0.0056uF	5%	630V	
C56	1-164-505-11	CERAMIC CHIP 2.2uF		16V	
C57	1-164-346-11	CERAMIC CHIP 1uF		16V	
C58	1-163-024-00	CERAMIC CHIP 0.018uF	10%	50V	
C72	1-124-499-11	ELECT, NONPOLAR 1uF	20%	50V	
		< CONNECTOR >			
*CNJ31	1-580-782-11	CONNECTOR, BOARD TO BOARD			
*CNJ33	1-580-782-11	CONNECTOR, BOARD TO BOARD			
*CNJ72	1-580-411-11	SOCKET, CONNECTOR 4P			
*CNP32	1-580-781-11	PIN, CONNECTOR (PC BOARD) 7P			
*CNP71	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P			

Ref.No.	Part No.	Description	Remark		
		< DIODE >			
D31	8-719-404-46	DIODE MA110			
		< IC >			
IC31	8-759-106-02	IC UPC4570G2			
		< JUMPER RESISTOR >			
JW1	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW2	1-216-295-00	METAL CHIP 0	5%	1/10W	
JW3	1-216-295-00	METAL CHIP 0	5%	1/10W	
JW4	1-216-295-00	METAL CHIP 0	5%	1/10W	
JW6	1-216-295-00	METAL CHIP 0	5%	1/10W	
JW7	1-216-295-00	METAL CHIP 0	5%	1/10W	
JW52	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW53	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW54	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW55	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW56	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW57	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW58	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW59	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW60	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW61	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW62	1-216-296-91	METAL GLAZE 0	5%	1/8W	
JW63	1-216-296-91	METAL GLAZE 0	5%	1/8W	
		< COIL >			
L11	1-410-780-11	INDUCTOR 27mH			
L21	1-410-780-11	INDUCTOR 27mH			
		< TRANSISTOR >			
Q51	8-729-142-46	TRANSISTOR 2SC2001-LK			
Q52	8-729-142-46	TRANSISTOR 2SC2001-LK			
Q53	8-729-111-29	TRANSISTOR 2SD1616A-K			
Q71	8-729-216-22	TRANSISTOR 2SA1162-G			

AUDIO

Ref.No.	Part No.	Description	Remark
< RESISTOR >			
R11	1-216-107-00	METAL CHIP 270K 5% 1/10W	
R12	1-216-025-00	METAL CHIP 100 5% 1/10W	
R13	1-216-100-00	METAL GLAZE 130K 5% 1/10W	
R14	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R15	1-249-430-11	CARBON 12K 5% 1/4W	
R21	1-216-107-00	METAL CHIP 270K 5% 1/10W	
R22	1-216-025-00	METAL CHIP 100 5% 1/10W	
R23	1-216-100-00	METAL GLAZE 130K 5% 1/10W	
R24	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R25	1-249-430-11	CARBON 12K 5% 1/4W	
R31	1-216-033-00	METAL CHIP 220 5% 1/10W	
R32	1-216-033-00	METAL CHIP 220 5% 1/10W	
R41	1-249-393-11	CARBON 10 5% 1/4W	
R42	1-249-393-11	CARBON 10 5% 1/4W	
R51	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R52	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R53	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R54	1-216-309-00	METAL CHIP 5.6 5% 1/10W	
R55	1-216-309-00	METAL CHIP 5.6 5% 1/10W	
R56	1-216-298-00	METAL CHIP 2.2 5% 1/10W	
R71	1-216-082-00	METAL GLAZE 24K 5% 1/10W	
R72	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R73	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R74	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
< VARIABLE RESISTOR >			
RV11	1-241-761-11	RES, ADJ, CARBON 1K	
RV12	1-238-551-11	RES, ADJ, CARBON 220K	
RV21	1-241-761-11	RES, ADJ, CARBON 1K	
RV22	1-238-551-11	RES, ADJ, CARBON 220K	
RV71	1-241-630-11	RES, ADJ, CARBON 10K	
RV72	1-241-630-11	RES, ADJ, CARBON 10K	
< RELAY >			
RY31	1-515-913-11	RELAY	
< TRANSFORMER >			
T51	1-426-650-11	TRANSFORMER, BIAS OSCILLATION	

Ref.No.	Part No.	Description	Remark
*	A-2006-890-A	AUDIO BOARD, COMPLETE (K315)	

< CAPACITOR >			
C11	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C12	1-136-157-00	FILM 0.022uF 5% 50V	
C13	1-124-234-00	ELECT 22uF 20% 16V	
C18	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C21	1-163-133-00	CERAMIC CHIP 470PF 5% 50V	
C22	1-136-157-00	FILM 0.022uF 5% 50V	
C23	1-124-234-00	ELECT 22uF 20% 16V	
C28	1-163-117-00	CERAMIC CHIP 100PF 5% 50V	
C31	1-124-234-00	ELECT 22uF 20% 16V	
C32	1-124-234-00	ELECT 22uF 20% 16V	
C33	1-124-234-00	ELECT 22uF 20% 16V	
C51	1-164-182-11	CERAMIC CHIP 0.0033uF 10% 50V	
C52	1-164-182-11	CERAMIC CHIP 0.0033uF 10% 50V	
C53	1-163-020-00	CERAMIC CHIP 0.0082uF 10% 50V	
C54	1-136-601-11	FILM 0.01uF 5% 630V	
C56	1-164-505-11	CERAMIC CHIP 2.2uF 16V	
C57	1-164-346-11	CERAMIC CHIP 1uF 16V	
C71	1-164-346-11	CERAMIC CHIP 1uF 16V	
C80	1-124-234-00	ELECT 22uF 20% 16V	
C81	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C82	1-136-157-00	FILM 0.022uF 5% 50V	
C83	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C84	1-136-439-11	FILM 330PF 5% 630V	
C85	1-136-433-11	FILM 100PF 5% 630V	
C86	1-163-143-00	CERAMIC CHIP 0.0012uF 5% 50V	
C87	1-136-273-91	FILM 75PF 5% 630V	
C88	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C89	1-124-234-00	ELECT 22uF 20% 16V	
C90	1-107-584-91	CERAMIC 4PF 0.25PF 500V	
C91	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C92	1-136-157-00	FILM 0.022uF 5% 50V	
C93	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C94	1-136-439-11	FILM 330PF 5% 630V	
C95	1-136-433-11	FILM 100PF 5% 630V	
C96	1-163-143-00	CERAMIC CHIP 0.0012uF 5% 50V	
C97	1-136-273-91	FILM 75PF 5% 630V	
C98	1-163-003-11	CERAMIC CHIP 330PF 10% 50V	
C99	1-164-005-11	CERAMIC CHIP 0.47uF 25V	

< CONNECTOR >

- *CNP31 1-580-782-11 CONNECTOR, BOARD TO BOARD
- *CNP32 1-580-781-11 PIN, CONNECTOR (PC BOARD) 7P
- *CNP33 1-580-782-11 CONNECTOR, BOARD TO BOARD
- *CNP71 1-564-719-11 PIN, CONNECTOR (SMALL TYPE) 3P
- *CNP72 1-580-411-11 SOCKET, CONNECTOR 4P

AUDIO

AUDIO SYSTEM CONTROL

DISPLAY

HP

REC VOL

TRANSFORMER

Ref.No.	Part No.	Description	Remark
< DIODE >			
D31	8-719-404-46	DIODE MA110	
< IC >			
IC31	8-759-106-02	IC UPC4570G2	
IC81	8-759-106-56	IC UPC1297CA	
< COIL >			
L81	1-410-780-11	INDUCTOR 27mH	
L91	1-410-780-11	INDUCTOR 27mH	
< TRANSISTOR >			
Q51	8-729-808-01	TRANSISTOR 2SD1622-S	
Q52	8-729-808-01	TRANSISTOR 2SD1622-S	
Q53	8-729-808-01	TRANSISTOR 2SD1622-S	
Q71	8-729-120-10	TRANSISTOR 2SA812-M5M6	
< RESISTOR >			
R11	1-216-107-00	METAL CHIP 270K 5% 1/10W	
R12	1-216-025-00	METAL CHIP 100 5% 1/10W	
R13	1-216-100-00	METAL GLAZE 130K 5% 1/10W	
R14	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R21	1-216-107-00	METAL CHIP 270K 5% 1/10W	
R22	1-216-025-00	METAL CHIP 100 5% 1/10W	
R23	1-216-100-00	METAL GLAZE 130K 5% 1/10W	
R24	1-216-068-00	METAL CHIP 6.2K 5% 1/10W	
R31	1-216-033-00	METAL CHIP 220 5% 1/10W	
R32	1-216-033-00	METAL CHIP 220 5% 1/10W	
R33	1-216-065-00	METAL CHIP 4.7K 5% 1/10W	
R51	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R52	1-216-091-00	METAL CHIP 56K 5% 1/10W	
R53	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R54	1-216-309-00	METAL CHIP 5.6 5% 1/10W	
R55	1-216-309-00	METAL CHIP 5.6 5% 1/10W	
R57	1-216-298-00	METAL CHIP 2.2 5% 1/10W	
R71	1-216-082-00	METAL GLAZE 24K 5% 1/10W	
R72	1-216-081-00	METAL CHIP 22K 5% 1/10W	
R73	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R74	1-216-089-91	METAL GLAZE 47K 5% 1/10W	
R81	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R82	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R83	1-216-001-00	METAL CHIP 10 5% 1/10W	
R84	1-216-101-00	METAL CHIP 150K 5% 1/10W	
R85	1-216-075-00	METAL CHIP 12K 5% 1/10W	
R91	1-216-073-00	METAL CHIP 10K 5% 1/10W	
R92	1-216-085-00	METAL CHIP 33K 5% 1/10W	
R93	1-216-001-00	METAL CHIP 10 5% 1/10W	
R94	1-216-101-00	METAL CHIP 150K 5% 1/10W	
R95	1-216-075-00	METAL CHIP 12K 5% 1/10W	

Ref.No.	Part No.	Description	Remark
< VARIABLE RESISTOR >			
RV11	1-241-761-11	RES, ADJ, CARBON 1K	
RV21	1-241-761-11	RES, ADJ, CARBON 1K	
RV71	1-241-630-11	RES, ADJ, CARBON 10K	
RV72	1-241-630-11	RES, ADJ, CARBON 10K	
RV81	1-241-786-11	RES, ADJ, CARBON 22K	
RV91	1-241-786-11	RES, ADJ, CARBON 22K	
< RELAY >			
RY31	1-515-913-11	RELAY	
< TRANSFORMER >			
T51	1-433-383-11	TRANSFORMER, BIAS OSCILLATION	
T81	1-433-398-11	TRANSFORMER, BIAS OSCILLATOR	
T91	1-433-398-11	TRANSFORMER, BIAS OSCILLATOR	
< TEST PIN >			
*TP81	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P	

*	A-2007-178-A	AUDIO SYSTEM CONTROL BOARD, COMPLETE (K215)	
*	A-2007-179-A	AUDIO SYSTEM CONTROL BOARD, COMPLETE (K315:E)	
*	A-2007-181-A	AUDIO SYSTEM CONTROL BOARD, COMPLETE (K315:AEP, G, AUS)	

DISPLAY BOARD			

HP BOARD			

REC VOL BOARD			

TRANSFORMER BOARD			

*	3-377-337-11	HOLDER (FL)	
< CAPACITOR >			
C101	1-136-157-00	FILM 0.022uF 5% 50V	
C102	1-124-927-11	ELECT 4.7uF 20% 100V	
C103	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C104	1-124-907-11	ELECT 10uF 20% 50V	
C105	1-136-165-00	FILM 0.1uF 5% 50V	
C106	1-136-163-00	FILM 0.068uF 5% 50V	
C107	1-124-916-11	ELECT 22uF 20% 63V	
C109	1-124-907-11	ELECT 10uF 20% 50V	
C110	1-124-927-11	ELECT 4.7uF 20% 100V	
C111	1-126-962-11	ELECT 3.3uF 20% 50V	
C112	1-124-902-00	ELECT 0.47uF 20% 50V	
C113	1-124-927-11	ELECT 4.7uF 20% 100V	

AUDIO SYSTEM CONTROL

DISPLAY

HP

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TRANSFORMER

Ref.No.	Part No.	Description	Remark		
C131	1-124-927-11	ELECT	4.7uF	20%	100V (K315)
C132	1-126-962-11	ELECT	3.3uF	20%	50V
C201	1-136-157-00	FILM	0.022uF	5%	50V
C202	1-124-927-11	ELECT	4.7uF	20%	100V
C203	1-161-375-00	CERAMIC	0.0022uF	20%	50V
C204	1-124-907-11	ELECT	10uF	20%	50V
C205	1-136-165-00	FILM	0.1uF	5%	50V
C206	1-136-163-00	FILM	0.068uF	5%	50V
C207	1-124-916-11	ELECT	22uF	20%	63V
C209	1-124-907-11	ELECT	10uF	20%	50V
C210	1-124-927-11	ELECT	4.7uF	20%	100V
C211	1-126-962-11	ELECT	3.3uF	20%	50V
C212	1-124-902-00	ELECT	0.47uF	20%	50V
C213	1-124-927-11	ELECT	4.7uF	20%	100V
C231	1-124-927-11	ELECT	4.7uF	20%	100V (K315)
C232	1-126-962-11	ELECT	3.3uF	20%	50V
C501	1-124-360-00	ELECT	1000uF	20%	16V
C502	1-124-907-11	ELECT	10uF	20%	50V
C503	1-124-907-11	ELECT	10uF	20%	50V
C504	1-124-903-11	ELECT	1uF	20%	50V
C505	1-124-907-11	ELECT	10uF	20%	50V
C506	1-124-472-11	ELECT	470uF	20%	10V (K215)
C506	1-124-443-00	ELECT	100uF	20%	10V (K315)
C511	1-136-161-00	FILM	0.047uF	5%	50V (K315)
C512	1-136-164-00	FILM	0.082uF	5%	50V (K315)
C513	1-137-367-11	FILM	0.0033uF	5%	50V (K315)
C521	1-124-907-11	ELECT	10uF	20%	50V
C551	1-162-282-31	CERAMIC	100PF	10%	50V
C552	1-161-494-00	CERAMIC	0.022uF		25V
C553	1-162-217-31	CERAMIC	56PF	5%	50V
C554	1-124-925-11	ELECT	2.2uF	20%	100V
C555	1-124-925-11	ELECT	2.2uF	20%	100V
C571	1-124-916-11	ELECT	22uF	20%	63V
C572	1-126-916-11	ELECT	1000uF	20%	6.3V
C601	1-164-159-11	CERAMIC	0.1uF		50V
C602	1-162-288-31	CERAMIC	330PF	10%	50V
C701	1-124-563-11	ELECT	2200uF	20%	25V
C702	1-124-563-11	ELECT	2200uF	20%	25V
C703	1-124-477-11	ELECT	47uF	20%	25V
C704	1-124-473-11	ELECT	1000uF	20%	10V
C705	1-124-473-11	ELECT	1000uF	20%	10V
C706	1-124-472-11	ELECT	470uF	20%	10V
C707	1-124-907-11	ELECT	10uF	20%	50V
C708	1-124-903-11	ELECT	1uF	20%	50V
C709	1-124-122-11	ELECT	100uF	20%	50V
C710	1-124-477-11	ELECT	47uF	20%	25V
C711	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-124-927-11	ELECT	4.7uF	20%	100V

Ref.No.	Part No.	Description	Remark		
C803	1-161-494-00	CERAMIC	0.022uF		25V
C804	1-161-494-00	CERAMIC	0.022uF		25V
C805	1-164-159-11	CERAMIC	0.1uF		50V
C806	1-124-907-11	ELECT	10uF	20%	50V
C807	1-124-472-11	ELECT	470uF	20%	10V
C808	1-161-494-00	CERAMIC	0.022uF		25V
C809	1-161-494-00	CERAMIC	0.022uF		25V
C810	1-162-282-31	CERAMIC	100PF	10%	50V
C811	1-164-159-11	CERAMIC	0.1uF		50V
C921	1-124-903-11	ELECT	1uF	20%	50V

< CONNECTOR >

*CN501	1-691-916-11	CONNECTOR, BOARD TO BOARD
*CN502	1-691-916-11	CONNECTOR, BOARD TO BOARD
CN503	1-568-826-11	CONNECTOR, FFC/FPC 7P
CN504	1-750-418-11	CONNECTOR, FFC/FPC 13P
CN505	1-750-438-11	CONNECTOR, FFC/FPC 33P
CN506	1-506-468-11	PIN, CONNECTOR 3P
CN701	1-564-510-11	PLUG, CONNECTOR 7P
*CN702	1-580-230-31	PIN, CONNECTOR (PC BOARD) 2P
*CN703	1-573-565-11	PIN, CONNECTOR 5P (K315:E)

< CONNECTOR >

CNP504	1-750-418-11	CONNECTOR, FFC/FPC 13P
CNP505	1-750-438-11	CONNECTOR, FFC/FPC 33P

< DIODE >

D131	8-719-987-63	DIODE	1N4148M
D132	8-719-987-63	DIODE	1N4148M
D231	8-719-987-63	DIODE	1N4148M
D232	8-719-987-63	DIODE	1N4148M
D511	8-719-987-63	DIODE	1N4148M (K315)
D512	8-719-987-63	DIODE	1N4148M (K315)
D551	8-719-987-63	DIODE	1N4148M
D571	8-719-987-63	DIODE	1N4148M
D701	8-719-024-99	DIODE	11ES2-NTA2B
D702	8-719-024-99	DIODE	11ES2-NTA2B
D703	8-719-024-99	DIODE	11ES2-NTA2B
D704	8-719-024-99	DIODE	11ES2-NTA2B
D705	8-719-987-63	DIODE	1N4148M
D706	8-719-987-63	DIODE	1N4148M
D707	8-719-024-99	DIODE	11ES2-NTA2B
D708	8-719-933-33	DIODE	HZS6A1L
D709	8-719-001-51	DIODE	UZL-11H1
D710	8-719-000-60	DIODE	UZL-6M2
D711	8-719-987-63	DIODE	1N4148M
D712	8-719-987-63	DIODE	1N4148M
D713	8-719-000-93	DIODE	UZL-7H1
D714	8-719-987-63	DIODE	1N4148M

AUDIO SYSTEM CONTROL

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Ref.No.	Part No.	Description	Remark
D715	8-719-933-33	DIODE HZS6A1L	
D801	8-719-933-33	DIODE HZS6A1L	
D802	8-719-933-33	DIODE HZS6A1L	
< FILTER >			
FL901	1-517-173-11	INDICATOR TUBE, FLUORESCENT	
< IC >			
IC501	8-752-060-46	IC CXA1561S	
IC502	8-752-055-62	IC CXA1579P	
IC503	8-759-145-58	IC UPC4558C (K315)	
IC504	8-759-145-58	IC UPC4558C	
IC505	8-759-145-58	IC UPC4558C	
IC506	8-759-140-53	IC UPD4053BC (K315)	
IC507	8-759-145-58	IC UPC4558C (K315)	
IC508	8-759-000-48	IC MC14052BCP	
IC509	8-759-916-14	IC SN74HC04AN (K315)	
IC510	8-759-145-58	IC UPC4558C	
IC511	8-759-145-58	IC UPC4558C	
IC601	8-759-803-42	IC LA6500-FA	
IC701	8-759-145-58	IC UPC4558C	
IC801	8-752-842-10	IC CXP82316-014Q	
IC802	8-759-165-82	IC PST600E-T	
IC901	8-741-100-48	IC SBX1610-59	
< JACK >			
J501	1-565-258-11	JACK, PIN 4P (LINE)	
J502	1-568-519-41	JACK, LARGE TYPE (HEADPHONES)	
< FILTER >			
LPF101	1-231-388-00	FILTER, LOW PASS	
LPF201	1-231-388-00	FILTER, LOW PASS	
< TRANSISTOR >			
Q101	8-729-900-89	TRANSISTOR DTC144ES	
Q102	8-729-900-80	TRANSISTOR DTC114ES	
Q121	8-729-142-25	TRANSISTOR 2SD1020-HFE	
Q122	8-729-119-78	TRANSISTOR 2SC2785-HFE (K315)	
Q201	8-729-900-89	TRANSISTOR DTC144ES	
Q202	8-729-900-80	TRANSISTOR DTC114ES	
Q221	8-729-142-25	TRANSISTOR 2SD1020-HFE	
Q222	8-729-119-78	TRANSISTOR 2SC2785-HFE (K315)	
Q503	8-729-900-61	TRANSISTOR DTA114ES	
Q504	8-729-900-80	TRANSISTOR DTC114ES	
Q511	8-729-119-78	TRANSISTOR 2SC2785-HFE (K315)	
Q512	8-729-900-74	TRANSISTOR DTC143TS (K315)	
Q521	8-729-900-80	TRANSISTOR DTC114ES	
Q531	8-729-900-61	TRANSISTOR DTA114ES (K315)	

Ref.No.	Part No.	Description	Remark
Q532	8-729-900-80	TRANSISTOR DTC114ES	
Q551	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q571	8-729-900-61	TRANSISTOR DTA114ES	
Q572	8-729-900-61	TRANSISTOR DTA114ES	
Q573	8-729-900-65	TRANSISTOR DTA144ES (K315)	
Q601	8-729-801-93	TRANSISTOR 2SD1387	
Q701	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q702	8-729-209-15	TRANSISTOR 2SD2012	
Q703	8-729-900-74	TRANSISTOR DTC143TS	
Q704	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q706	8-729-900-74	TRANSISTOR DTC143TS	
Q707	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q708	8-729-140-04	TRANSISTOR 2SB1116A-L	
Q803	8-729-900-80	TRANSISTOR DTC114ES	
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE	
< RESISTOR >			
R101	1-247-838-00	CARBON 2K 5% 1/4W	
R102	1-247-842-11	CARBON 3K 5% 1/4W	
R104	1-249-417-11	CARBON 1K 5% 1/4W	
R105	1-249-423-11	CARBON 3.3K 5% 1/4W	
R106	1-247-887-00	CARBON 220K 5% 1/4W	
R107	1-249-428-11	CARBON 8.2K 5% 1/4W	
R110	1-249-429-11	CARBON 10K 5% 1/4W	
R111	1-249-423-11	CARBON 3.3K 5% 1/4W	
R121	1-249-437-11	CARBON 47K 5% 1/4W	
R122	1-249-421-11	CARBON 2.2K 5% 1/4W	
R123	1-249-421-11	CARBON 2.2K 5% 1/4W	
R124	1-249-437-11	CARBON 47K 5% 1/4W (K315)	
R125	1-249-425-11	CARBON 4.7K 5% 1/4W (K315)	
R131	1-249-425-11	CARBON 4.7K 5% 1/4W (K315)	
R132	1-247-822-11	CARBON 430 5% 1/4W (K315)	
R133	1-247-866-11	CARBON 30K 5% 1/4W (K315)	
R134	1-247-866-11	CARBON 30K 5% 1/4W	
R135	1-249-439-11	CARBON 68K 5% 1/4W	
R136	1-249-410-11	CARBON 270 5% 1/4W	
R141	1-249-432-11	CARBON 18K 5% 1/4W	
R142	1-249-432-11	CARBON 18K 5% 1/4W	
R143	1-249-421-11	CARBON 2.2K 5% 1/4W	
R144	1-247-854-11	CARBON 9.1K 5% 1/4W	
R145	1-249-409-11	CARBON 220 5% 1/4W	
R151	1-249-433-11	CARBON 22K 5% 1/4W	
R152	1-249-417-11	CARBON 1K 5% 1/4W	
R153	1-249-441-11	CARBON 100K 5% 1/4W	
R154	1-249-433-11	CARBON 22K 5% 1/4W	
R161	1-249-429-11	CARBON 10K 5% 1/4W	
R201	1-247-838-00	CARBON 2K 5% 1/4W	

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TRANSFORMER

Ref.No.	Part No.	Description	Remark		
R202	1-247-842-11	CARBON	3K	5%	1/4W
R204	1-249-417-11	CARBON	1K	5%	1/4W
R205	1-249-423-11	CARBON	3.3K	5%	1/4W
R206	1-247-887-00	CARBON	220K	5%	1/4W
R207	1-249-428-11	CARBON	8.2K	5%	1/4W
R210	1-249-429-11	CARBON	10K	5%	1/4W
R211	1-249-423-11	CARBON	3.3K	5%	1/4W
R221	1-249-437-11	CARBON	47K	5%	1/4W
R222	1-249-421-11	CARBON	2.2K	5%	1/4W
R223	1-249-421-11	CARBON	2.2K	5%	1/4W
R224	1-249-437-11	CARBON	47K	5%	1/4W (K315)
R225	1-249-425-11	CARBON	4.7K	5%	1/4W (K315)
R231	1-249-425-11	CARBON	4.7K	5%	1/4W (K315)
R232	1-247-822-11	CARBON	430	5%	1/4W (K315)
R233	1-247-866-11	CARBON	30K	5%	1/4W (K315)
R234	1-247-866-11	CARBON	30K	5%	1/4W
R235	1-249-439-11	CARBON	68K	5%	1/4W
R236	1-249-410-11	CARBON	270	5%	1/4W
R241	1-249-432-11	CARBON	18K	5%	1/4W
R242	1-249-432-11	CARBON	18K	5%	1/4W
R243	1-249-421-11	CARBON	2.2K	5%	1/4W
R244	1-247-854-11	CARBON	9.1K	5%	1/4W
R245	1-249-409-11	CARBON	220	5%	1/4W
R251	1-249-433-11	CARBON	22K	5%	1/4W
R252	1-249-417-11	CARBON	1K	5%	1/4W
R253	1-249-441-11	CARBON	100K	5%	1/4W
R254	1-249-433-11	CARBON	22K	5%	1/4W
R261	1-249-429-11	CARBON	10K	5%	1/4W
R502	1-215-452-00	METAL	20K	1%	1/6W
R503	1-249-422-11	CARBON	2.7K	5%	1/4W
R504	1-215-455-00	METAL	27K	1%	1/6W
R505	1-249-417-11	CARBON	1K	5%	1/4W
R511	1-249-429-11	CARBON	10K	5%	1/4W (K315)
R512	1-249-421-11	CARBON	2.2K	5%	1/4W (K315)
R513	1-249-441-11	CARBON	100K	5%	1/4W (K315)
R514	1-249-441-11	CARBON	100K	5%	1/4W (K315)
R515	1-249-436-11	CARBON	39K	5%	1/4W (K315)
R516	1-249-425-11	CARBON	4.7K	5%	1/4W (K315)
R517	1-249-433-11	CARBON	22K	5%	1/4W (K315)
R518	1-249-425-11	CARBON	4.7K	5%	1/4W (K315)
R521	1-249-426-11	CARBON	5.6K	5%	1/4W (K315)
R522	1-249-426-11	CARBON	5.6K	5%	1/4W (K315)
R523	1-247-858-11	CARBON	13K	5%	1/4W (K315)
R524	1-247-852-11	CARBON	7.5K	5%	1/4W (K315)
R525	1-247-854-11	CARBON	9.1K	5%	1/4W (K315)
R526	1-247-854-11	CARBON	9.1K	5%	1/4W (K315)
R527	1-249-426-11	CARBON	5.6K	5%	1/4W (K315)
R528	1-249-422-11	CARBON	2.7K	5%	1/4W (K315)
R529	1-249-429-11	CARBON	10K	5%	1/4W

Ref.No.	Part No.	Description	Remark		
R530	1-249-421-11	CARBON	2.2K	5%	1/4W
R531	1-249-427-11	CARBON	6.8K	5%	1/4W (K315)
R532	1-249-433-11	CARBON	22K	5%	1/4W (K315)
R535	1-249-419-11	CARBON	1.5K	5%	1/4W (K315)
R536	1-249-421-11	CARBON	2.2K	5%	1/4W (K315)
R537	1-247-866-11	CARBON	30K	5%	1/4W (K315)
R538	1-247-852-11	CARBON	7.5K	5%	1/4W (K315)
R539	1-249-431-11	CARBON	15K	5%	1/4W (K315)
R540	1-247-874-11	CARBON	62K	5%	1/4W (K315)
R541	1-249-429-11	CARBON	10K	5%	1/4W (K315)
R542	1-249-429-11	CARBON	10K	5%	1/4W (K315)
R543	1-249-429-11	CARBON	10K	5%	1/4W (K315)
R544	1-249-429-11	CARBON	10K	5%	1/4W (K315)
R553	1-249-437-11	CARBON	47K	5%	1/4W
R555	1-249-427-11	CARBON	6.8K	5%	1/4W
R556	1-249-423-11	CARBON	3.3K	5%	1/4W
R557	1-249-441-11	CARBON	100K	5%	1/4W
R558	1-249-429-11	CARBON	10K	5%	1/4W
R559	1-249-441-11	CARBON	100K	5%	1/4W
R560	1-249-417-11	CARBON	1K	5%	1/4W
R561	1-249-432-11	CARBON	18K	5%	1/4W
R562	1-249-436-11	CARBON	39K	5%	1/4W
R563	1-247-848-11	CARBON	5.1K	5%	1/4W (K215)
R564	1-247-834-11	CARBON	1.3K	5%	1/4W (K215)
R565	1-249-430-11	CARBON	12K	5%	1/4W (K215)
R567	1-249-433-11	CARBON	22K	5%	1/4W (K215)
R571	1-249-403-11	CARBON	68	5%	1/4W
R572	1-249-429-11	CARBON	10K	5%	1/4W
R573	1-249-429-11	CARBON	10K	5%	1/4W
R574	1-249-435-11	CARBON	33K	5%	1/4W (K315)
R575	1-247-807-31	CARBON	100	5%	1/4W
R601	1-249-419-11	CARBON	1.5K	5%	1/4W
R602	1-249-429-11	CARBON	10K	5%	1/4W
R603	1-247-807-31	CARBON	100	5%	1/4W
R604	1-249-433-11	CARBON	22K	5%	1/4W
R605	1-249-433-11	CARBON	22K	5%	1/4W
R606	1-249-430-11	CARBON	12K	5%	1/4W
R607	1-249-433-11	CARBON	22K	5%	1/4W
R608	1-247-862-11	CARBON	20K	5%	1/4W
R609	1-249-429-11	CARBON	10K	5%	1/4W
R701	1-249-425-11	CARBON	4.7K	5%	1/4W
R702	1-249-419-11	CARBON	1.5K	5%	1/4W
R703	1-249-418-11	CARBON	1.2K	5%	1/4W
R704	1-249-427-11	CARBON	6.8K	5%	1/4W
R705	1-249-419-11	CARBON	1.5K	5%	1/4W
R706	1-249-419-11	CARBON	1.5K	5%	1/4W
R707	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-425-11	CARBON	4.7K	5%	1/4W

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REC VOL

TRANSFORMER

LEAF SW

Ref.No.	Part No.	Description	Remark		
R709	1-249-409-11	CARBON	220	5%	1/4W
R710	1-249-417-11	CARBON	1K	5%	1/4W
R711	1-249-427-11	CARBON	6.8K	5%	1/4W
R712	1-249-427-11	CARBON	6.8K	5%	1/4W
R713	1-249-429-11	CARBON	10K	5%	1/4W
R714	1-249-425-11	CARBON	4.7K	5%	1/4W
R715	1-249-421-11	CARBON	2.2K	5%	1/4W
R716	1-249-437-11	CARBON	47K	5%	1/4W
R717	1-249-429-11	CARBON	10K	5%	1/4W
R718	1-247-870-11	CARBON	43K	5%	1/4W
R719	1-249-429-11	CARBON	10K	5%	1/4W
R723	1-249-417-11	CARBON	1K	5%	1/4W
R801	1-249-417-11	CARBON	1K	5%	1/4W
R802	1-249-441-11	CARBON	100K	5%	1/4W
R805	1-249-434-11	CARBON	27K	5%	1/4W
R806	1-249-434-11	CARBON	27K	5%	1/4W (K315)
R807	1-249-434-11	CARBON	27K	5%	1/4W (K315)
R808	1-249-434-11	CARBON	27K	5%	1/4W (K315)
R809	1-249-434-11	CARBON	27K	5%	1/4W (K315)
R810	1-247-807-31	CARBON	100	5%	1/4W
R811	1-247-807-31	CARBON	100	5%	1/4W
R812	1-247-807-31	CARBON	100	5%	1/4W
R813	1-247-807-31	CARBON	100	5%	1/4W
R814	1-247-807-31	CARBON	100	5%	1/4W
R815	1-247-807-31	CARBON	100	5%	1/4W
R816	1-247-807-31	CARBON	100	5%	1/4W
R817	1-249-435-11	CARBON	33K	5%	1/4W
R818	1-249-435-11	CARBON	33K	5%	1/4W
R819	1-249-435-11	CARBON	33K	5%	1/4W
R820	1-247-807-31	CARBON	100	5%	1/4W
R821	1-249-435-11	CARBON	33K	5%	1/4W
R822	1-249-429-11	CARBON	10K	5%	1/4W
R823	1-249-435-11	CARBON	33K	5%	1/4W
R824	1-249-421-11	CARBON	2.2K	5%	1/4W
R825	1-249-441-11	CARBON	100K	5%	1/4W
R826	1-249-421-11	CARBON	2.2K	5%	1/4W
R827	1-249-422-11	CARBON	2.7K	5%	1/4W
R828	1-249-422-11	CARBON	2.7K	5%	1/4W
R829	1-249-422-11	CARBON	2.7K	5%	1/4W
R830	1-249-435-11	CARBON	33K	5%	1/4W
R901	1-249-420-11	CARBON	1.8K	5%	1/4W
R903	1-247-854-11	CARBON	9.1K	5%	1/4W
R904	1-249-429-11	CARBON	10K	5%	1/4W
R905	1-249-435-11	CARBON	33K	5%	1/4W
R906	1-249-420-11	CARBON	1.8K	5%	1/4W
R907	1-249-423-11	CARBON	3.3K	5%	1/4W
R908	1-249-426-11	CARBON	5.6K	5%	1/4W
R911	1-249-429-11	CARBON	10K	5%	1/4W

Ref.No.	Part No.	Description	Remark		
R912	1-249-429-11	CARBON	10K	5%	1/4W
R913	1-249-429-11	CARBON	10K	5%	1/4W
R921	1-247-850-11	CARBON	6.2K	5%	1/4W
R922	1-247-862-11	CARBON	20K	5%	1/4W
R923	1-249-428-11	CARBON	8.2K	5%	1/4W
R924	1-249-425-11	CARBON	4.7K	5%	1/4W
R925	1-249-437-11	CARBON	47K	5%	1/4W

< VARIABLE RESISTOR >

RV111	1-241-630-11	RES, ADJ, CARBON 10K
RV211	1-241-630-11	RES, ADJ, CARBON 10K
RV901	1-223-604-11	RES, VAR, CARBON 10K/10K (REC LEVEL)
RV902	1-223-605-11	RES, VAR, CARBON 20K/20K (BALANCE)

< SWITCH >

S901	1-554-303-21	SWITCH, TACTILE (PAUSE II)
S903	1-554-303-21	SWITCH, TACTILE (>)
S905	1-554-303-21	SWITCH, TACTILE (REC MUTE ⊙)
S906	1-554-303-21	SWITCH, TACTILE (RESET)
S907	1-554-303-21	SWITCH, TACTILE (MEMORY)
S908	1-554-303-21	SWITCH, TACTILE (■)
S909	1-554-303-21	SWITCH, TACTILE (◀)
S910	1-554-303-21	SWITCH, TACTILE (▶)
S911	1-554-303-21	SWITCH, TACTILE (REC ●)
S913	1-692-409-11	SWITCH, PUSH (1 KEY) (POWER)
S921	1-554-303-21	SWITCH, TACTILE (AUTO CAL) (K315)
S922	1-692-408-11	SWITCH, ROTARY (DOLBY NR)
S923	1-554-118-00	SWITCH, PUSH (1 KEY) (MPX FILTER)

< TRANSFORMER >

△T901	1-426-651-11	TRANSFORMER, POWER (TC-K215/TC-K315:AEP, G, AUS, EE)
△T901	1-426-652-11	TRANSFORMER, POWER (TC-K315:E)

< TEST PIN >

*TP801	1-564-505-11	PLUG, CONNECTOR 2P
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< VIBRATOR >

X801	1-579-175-11	VIBRATOR, CERAMIC (10MHz)

*	1-638-020-11	LEAF SW BOARD

< CONNECTOR >

*CNP81	1-568-850-11	SOCKET, CONNECTOR 7P
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The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
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< IC >

IC81	8-749-924-10	IC PHOTO REFLECTOR NJL5165K-B(H1)	
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< RESISTOR >

R81	1-249-414-11	CARBON	560	5%	1/4W
R83	1-247-834-11	CARBON	1.3K	5%	1/4W
R84	1-249-417-11	CARBON	1K	5%	1/4W
R85	1-249-408-11	CARBON	180	5%	1/4W

< SWITCH >

S81	1-571-958-11	SWITCH, PUSH (1 KEY) (STOP)
S82	1-571-281-21	SWITCH, LEAF (70uS)
S83	1-571-281-21	SWITCH, LEAF (METAL)
S84	1-571-281-21	SWITCH, LEAF (REC-A)
S86	1-571-281-21	SWITCH, LEAF (HALF)

MISCELLANEOUS

△12	1-569-007-11	ADAPTER, CONVERSION 2P (TC-K315:E)
63	1-751-736-11	WIRE (FLAT TYPE) (33 CORE)
67	1-696-965-11	WIRE (FLAT TYPE) (7 CORE)
72	1-534-517-00	WIRE (FLAT TYPE) (13 CORE)
103	1-638-983-11	MOTOR FLEXIBLE BOARD

△CNP901	1-575-651-21	CORD, POWER (TC-K315:AEP,G,EE)
△CNP901	1-696-027-11	CORD, POWER (TC-K315:E)
△CNP901	1-696-586-11	CORD, POWER (TC-K215)
△CNP901	1-696-845-11	CORD, POWER (TC-K315:AUS)
HE901	1-543-673-11	HEAD, MAGNETIC (ERASE)

HRP901	1-543-919-11	HEAD, MAGNETIC (RECORD/PLAYBACK)
M901	X-3363-501-1	MOTOR ASSY, REEL
M902	X-3365-377-1	MOTOR ASSY, CAPSTAN
△S701	1-570-046-21	SWITCH, VOLTAGE CHANGE (TC-K315:E)

ACCESSORIES & PACKING MATERIALS

1-551-734-11	CORD, CONNECTION
3-758-577-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH) (TC-K315:AEP,E)
3-758-577-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (TC-K315:AEP)
3-758-577-51	MANUAL, INSTRUCTION (GERMAN) (TC-K315:G)
3-758-577-61	MANUAL, INSTRUCTION (ENGLISH) (TC-K215/TC-K315:AUS,EE)

*	3-907-887-01	CUSHION
*	3-912-543-21	INDIVIDUAL CARTON (TC-K315:AUS)
*	3-912-543-31	INDIVIDUAL CARTON (TC-K315:AEP,G,E,EE)
*	3-912-543-41	INDIVIDUAL CARTON (TC-K215)

Ref.No.	Part No.	Description	Remark
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HARDWARE LIST

#1	7-682-548-09	SCREW +BVTT 3X8 (S)
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S (TC-K315:E)
#3	7-621-849-00	SCREW (BV/RING)
#4	7-685-134-19	SCREW (+ PTPWH) (2.6X8)
#5	7-621-773-95	SCREW +BVTT 2.6X6 (S)
#6	7-621-772-58	SCREW (+B2X10)
#7	7-627-556-08	SCREW +P 2.6X2.8
#8	7-621-775-00	SCREW +B 2.6X3

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

TC-K215/K315

SONY SERVICE MANUAL

AEP Model
TC-K215/K315

UK Model
TC-K215

E Model
Australian Model
TC-K315

SUPPLEMENT-1

File this Supplement with the service manual.

Subject : TC-K215 (AEP Model),
TC-K215 (German Model) Addition

- TC-K215 (AEP model) and TC-K215 (German model) are similar to the earlier TC-K215 (UK model).
- Refer to TC-K215 (UK model) service manual for information not contained this service manual.

Page	TC-K215 (UK Model)	TC-K215 (AEP Model) TC-K215 (German Model)
28	<u>Ref. No.</u> <u>Part No.</u> <u>Description</u> △ CNP901 1-696-586-11 CORD, POWER	<u>Ref. No.</u> <u>Part No.</u> <u>Description</u> △ CNP901 1-575-651-21 CORD, POWER
	* 8 3-910-526-31 PANEL, BACK	* 8 3-910-526-41 PANEL, BACK
39	3-758-577-61 MANUAL, INSTRUCTION	3-758-577-12 MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (AEP Model)
		3-758-577-42 MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, ITALIAN) (AEP Model)
		3-758-577-52 MANUAL, INSTRUCTION (German) (German Model)

The components identified by mark △ or dotted line with mark △ are critical for safety.
Replace only with part number specified.